

Work Order ID 157162

Thursday, February 16, 2017 7:49:01 AM

157162

Page 1

Item ID: D5366-041 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Cargo Net Assembly
Start Date: 2/16/2017 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 2/17/2017 Req'd Qty: 1.00 ***1*** Customer:
Reference:

Approvals: Process Plan: N Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
D5366	G

100

0.00

100

Purchasing

Purchasing

Memo

83.83

Issue P/O: 35247

Manufacture as per Dwg and supplied files

Possible supplier: TULMAR

SHIP:

QTY12 D5297-041

QTY12 D5321-5

Material release note is required.

FEB 16 2017

DAS
13
9-59

110

Receive & Inspect for Damage & Mat'l Certs

0.00

110

Packaging

Packaging

Memo

0.00

1X Sp17-02-16

Work Order ID 157162

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Page 2

Item ID: D5366-041 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Cargo Net Assembly
Start Date: 2/16/2017 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 2/17/2017 Req'd Qty: 1.00 ***1*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120	QC6- Inspect dimensions to drawing	0.00							
120									
QC	Memo	0.00							
Quality Control									
130	Identify as per dwg & Stock Location: 5247	0.00							
130									
Packaging	Memo	0.00							
Packaging									
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.02							
Quality Control									

DAS
21
9-89

MAR 03 2017

Picklist Print

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Work Order ID: 157162

157162

Parent Item: D5366-041

D5366-041

Parent Item Name: Cargo Net Assembly

Start Date: 2/16/2017

Required Date: 2/17/2017

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 15.12.03 NEW ISSUE DD VERF:JLM IPP
REV:B 16.06.24 AS PER DWG REV.D DD VERF:JLM IPP REV:C
16.10.03 AS PER DWG REV.F DD VERF:JFS

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D5297-041 *D5297-041* Cinch Buckle Assembly		Manufactured	No			100	Each	60.0000	12	12	✓	FEB 16 2017	DAS 13 9-89

Location	Loc Qty	Loc Code
ST162	12	
148221	12	
ST168A	48	
148491	48	

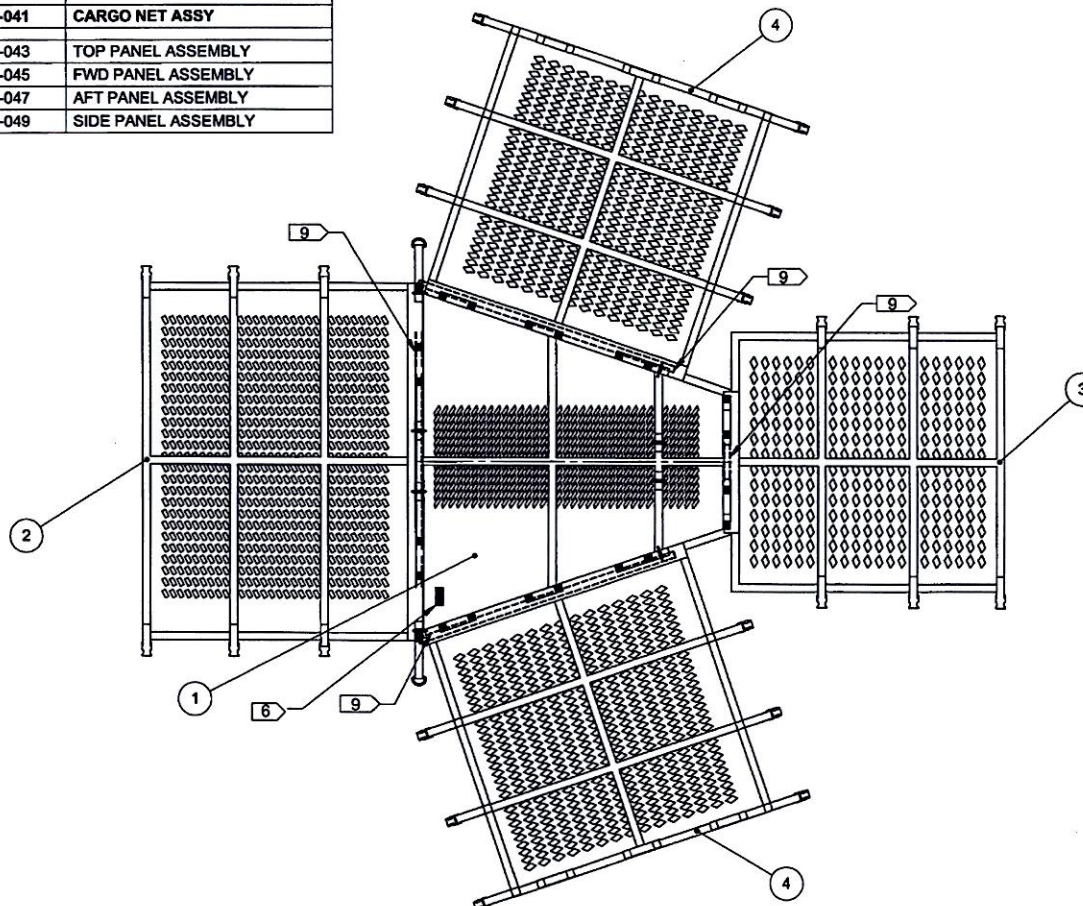
D5321-5 *D5321-5* Ring		Manufactured	No			100	Each	25.0000	12	12	✓	FEB 16 2017	DAS 13 9-89
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Location	Loc Qty	Loc Code
ST164	25	
148497	25	

D5366-041P *D5366-041P* Cargo Net Assembly		Purchased	No			100	Each	0.0000	1	1	✓	1X Sp17-02 / 6	
---	--	-----------	----	--	--	-----	------	--------	---	---	---	----------------	--

ITEM	QTY -041	P/N	DESCRIPTION
	X	D5366-041	CARGO NET ASSY
1	1	D5366-043	TOP PANEL ASSEMBLY
2	1	D5366-045	FWD PANEL ASSEMBLY
3	1	D5366-047	AFT PANEL ASSEMBLY
4	2	D5366-049	SIDE PANEL ASSEMBLY

TABLE 1:TOLERANCES	RANGE
+/- 0.13	0<2"
+/- 0.25	2<10"
+/- 0.50	10<20"
+/- 0.63	20<40"
+/- 1.55"	>40"
+/- 5"	ANGLES



D5366-041 CARGO NET ASSY

NOTES:

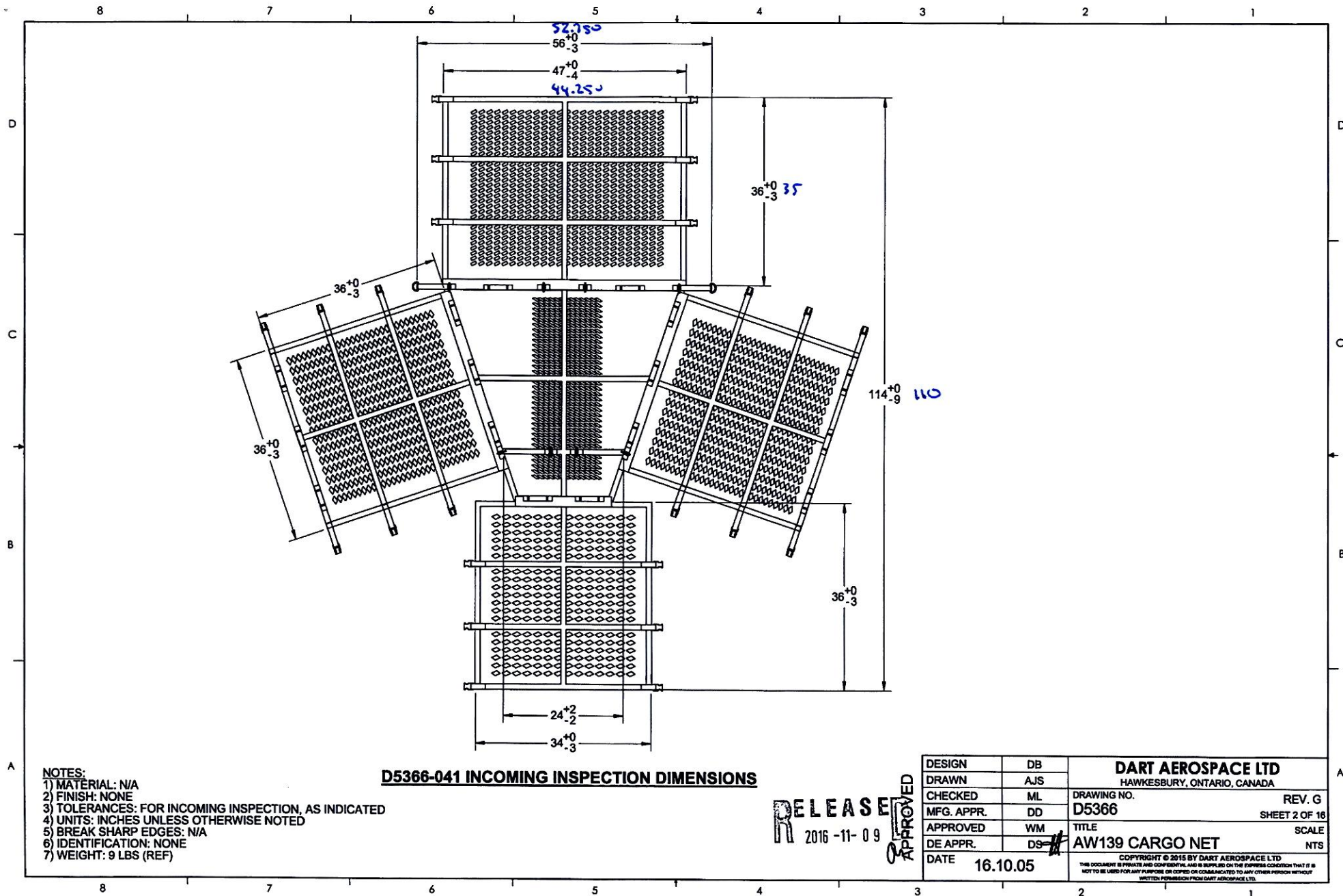
- 1) MATERIAL: N/A
- 2) FINISH: NONE
- 3) TOLERANCES: PER TABLE 1 UNLESS OTHERWISE STATED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: WITH SEWN ON LABEL "DART AEROSPACE LTD P/N D5366-041"
- 7) WEIGHT: 9 LBS (REFERENCE ONLY)
- 8) ALL STITCHING TO BE MACHINE STITCHED IN ACCORDANCE WITH ASTM D6193 TYPE 301, 8-10 STITCHES PER INCH, MINIMUM 0.5" BACK STITCH 0.8" X 0.8" BOX "X" STITCHING TYPICAL AT ALL WEBBING INTERSECTIONS
- 9) D5366-045/-047/-049(2) PANEL ASSEMBLIES SEWN TO D5366-043 TOP PANEL ASSY WITH DOUBLE CONTINUOUS STITCH ALONG SEAM, 0.8 SPACING, CENTERED ON WEBBING.

G	SHEETS 8, 9 & 10: DELETE -19. SHEETS 9, 12 & 15: UPDATE NOTE 9. MOVE VIEWS FOR -23 TO SHEET 10. SHEETS 11, 12 & 13: DELETED -29. SHEETS 14, 15 & 16: DELETE -37 (ALL STORAGE POCKETS DELETED). RELOCATE VIEWS FOR -31 TO SHEET 16. REASON: CUSTOMER FEEDBACK POST TRIAL INSTALLATION.	AJS	16.10.05
F	SHEETS 3 AND 4: ADDED (2) D-RINGS WITH LOOPS AND MOVED EXISTING D-RINGS OFF CENTER. D-RINGS ADDED TO UNDERSIDE. SHT 6: DELETED -53. SHEET 11: DELETED -31 AND REPLACE WITH -23. SHEET 14: DELETED -39 AND ADD 3X -7 AND 6X -31. SHEET 15: REDESIGN -31. REASON: CUSTOMER FEEDBACK POST TRIAL INSTALLATION.	AJS	16.09.27
E	SHT 3 ADDED ITEM 11. SHT 4 ADDED DETAIL A (D RING ROTATED 90°). SHT 4 -51 WAS -41. SHT 6 ADDED -53. SHT 14 -39 WAS 36.0 LONG. REASON: FACILITATE INSTALLATION.	AJS	16.09.09
D	ADD SHEET 2 (INSPECTION DIMENSIONS), REVISE NOTE 3 (SHEETS 2-15). ADD TABLE 1: TOLERANCES (SHEET 1). 0.5 X 0.8 BOX STITCH WAS 1.8 X 0.8 (SHEET 4). CORRECT PART WEIGHT (SHEET 1, 2). REMOVE PART WEIGHTS (SHT 7, 10, 13) ADD TYPE VIII TO 2" WEBBING MATERIAL (SHEET 8). ADDED TOLERANCES TO LOCATION OF D5366-41 ONTO D5366-043 (SHEET 4)	DB	16.08.09
C	MAKE WEIGHTS REFERENCE ONLY (NOTE 7, SH 1, 2, 6, 9, 12), ADD D5366-41 CARIBINER STRAP (2 PL, SH 2, 3), ADD D5366-5 D RING (2 PL), ADD D5366-21 D RING LOOP (2 PL, SH 2, 3)	DB	16.05.19
B	DELETE D5366-141, ADD D5321-5, D5366-21D RING LOOP WAS D5366-21 HANGER LOOP	DB	16.02.08
A	NEW ISSUE	DB	15.11.27
REV.	DESCRIPTION	BY	DATE

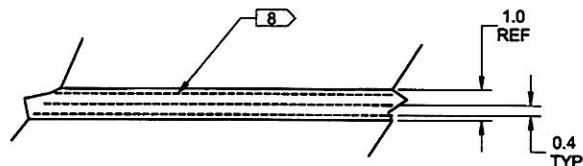
DESIGN	DB	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	AJS		
CHECKED	ML	DRAWING NO.	REV. G
MFG. APPR.	DD	D5366	SHEET 1 OF 16
APPROVED	WM	TITLE	SCALE
DE APPR.	DS	AW139 CARGO NET	NTS
DATE	16.10.05	COPYRIGHT © 2015 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COMPILED OR REPRODUCED IN ANY MANNER WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

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2016-11-09
EW 6-169

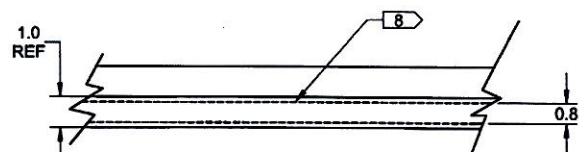
APPROVED



ITEM	QTY -043	P/N	DESCRIPTION
	X	D5366-043	TOP PANEL ASSY
1	12	D5321-5	D RING
2	1	D5366-1	TOP PANEL WEBBING
3	1	D5366-3	TOP PANEL MESH
4	4	D5366-5	LONG LOOP
5	6	D5366-7	SHORT LOOP
6	2	D5366-9	SIDE SEAM
7	1	D5366-11	FWD SEAM
8	1	D5366-13	AFT SEAM
9	8	D5366-21	D RING LOOP
10	2	D5366-51	CARABINER STRAP



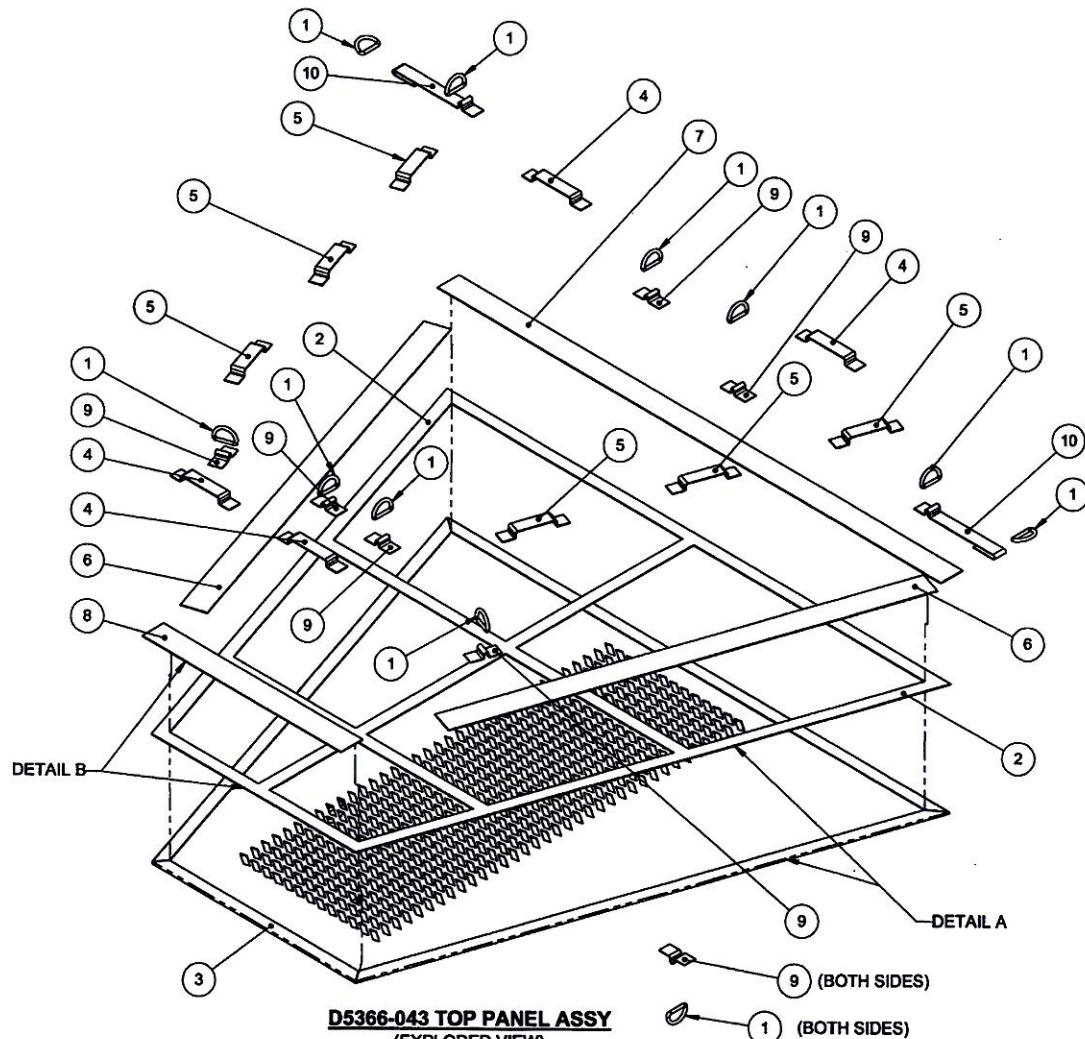
DETAIL A: TYPICAL MESH-TO-WEBBING STITCH PATTERN



DETAIL B: TYPICAL SEAM-TO-WEBBING STITCH PATTERN
(SHOWN FROM UNDERSIDE OF WEBBING, MESH REMOVED)

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER TABLE 1, SH 1, UNLESS OTHERWISE STATED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: N/A
- 8) ALL STITCHING TO BE MACHINE STITCHED IN ACCORDANCE WITH ASTM D6193 TYPE 301, 8-10 STITCHES PER INCH, MINIMUM 0.5" BACK STITCH
- 0.8" X 0.8" BOX 'X' STITCHING TYPICAL AT ALL WEBBING INTERSECTIONS

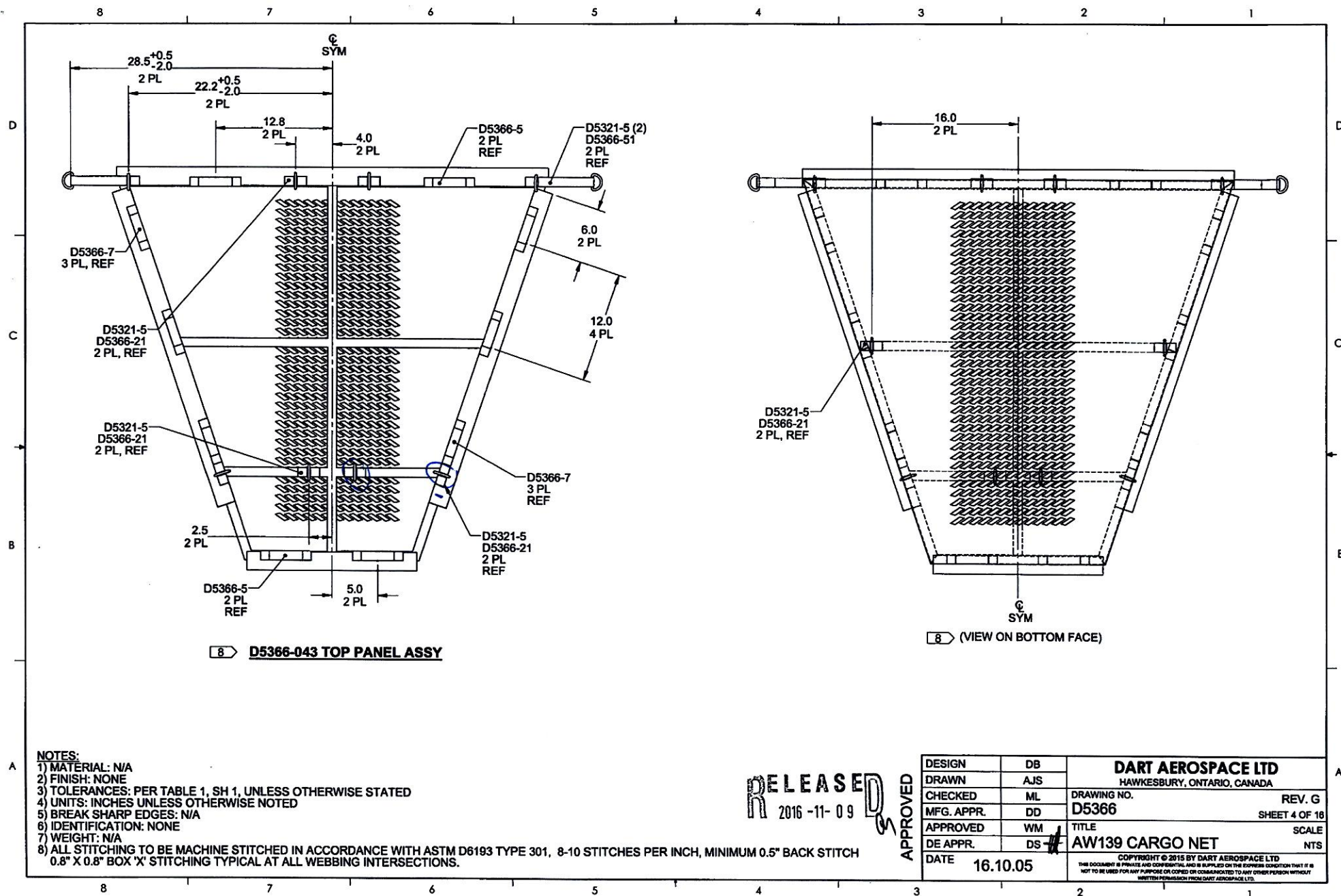


D5366-043 TOP PANEL ASSY
(EXPLODED VIEW)

RELEASED
2016-11-09

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DESIGN	DB	DART AEROSPACE LTD	
DRAWN	AJS	HAWKESBURY, ONTARIO, CANADA	
CHECKED	ML	DRAWING NO.	REV. G
MFG. APPR.	DD	D5366	SHEET 3 OF 16
APPROVED	WM	TITLE	SCALE
DE APPR.	DS	AW139 CARGO NET	NTS
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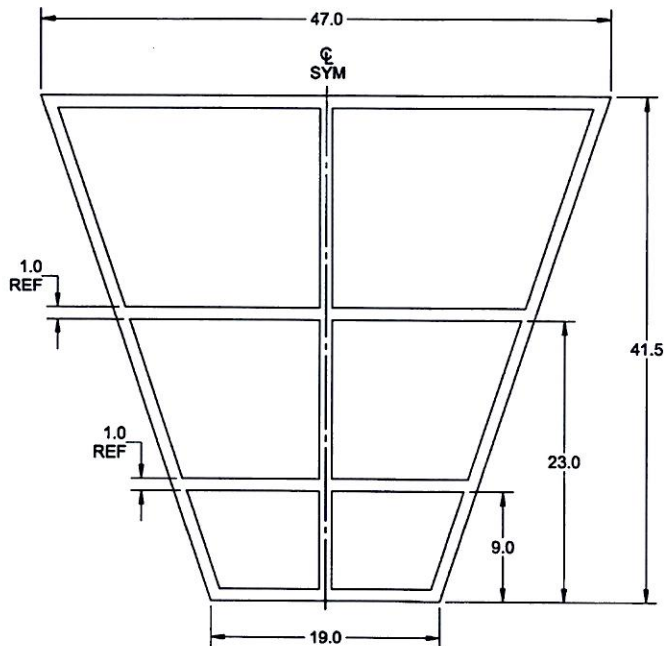
8 7 6 5 4 3 2 1

D

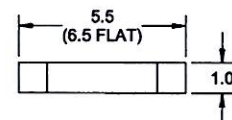
C

B

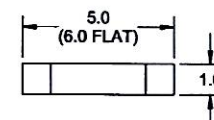
A



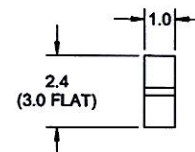
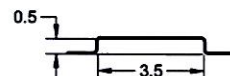
D5366-1 TOP PANEL WEBBING



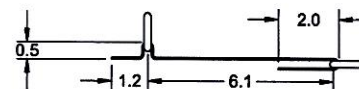
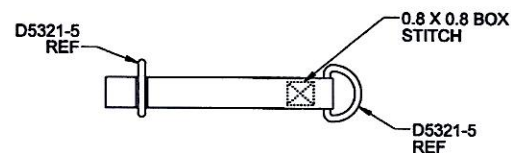
D5366-5 LONG LOOP
4 PL



D5366-7 SHORT LOOP
6 PL



D5366-21 D RING LOOP



D5366-51 CARABINER STRAP

NOTES:

1) MATERIAL: WEBBING MATERIAL: 1" NYLON, MIL-W-4088, TYPE XVII, CLASS 1 OR 1A, COLOR BLACK
THREAD: NYLON THREAD TO BE USED FOR ALL SEAMS CONFORMING TO V-T-295 TYPE II
(OR A-A-59826) CLASS A, SIZE FF, COLOR BLACK

2) FINISH: NONE

3) TOLERANCES: PER TABLE 1, SH 1, UNLESS OTHERWISE STATED

4) UNITS: INCHES UNLESS OTHERWISE NOTED

5) BREAK SHARP EDGES: N/A

6) IDENTIFICATION: NONE

7) WEIGHT: N/A

8) ALL STITCHING TO BE MACHINE STITCHED IN ACCORDANCE WITH ASTM D6193 TYPE 301, 8-10 STITCHES PER INCH, MINIMUM 0.5" BACK STITCH
0.8" X 0.8" BOX 'X' STITCHING TYPICAL AT ALL WEBBING INTERSECTIONS.

RELEASED
2016-11-09

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DESIGN	DB	DART AEROSPACE LTD	
DRAWN	AJS	HAWKESBURY, ONTARIO, CANADA	
CHECKED	ML	DRAWING NO.	REV. G
MFG. APPR.	DD	D5366	SHEET 5 OF 16
APPROVED	WM	TITLE	SCALE
DE APPR.	DS	AW139 CARGO NET	NTS
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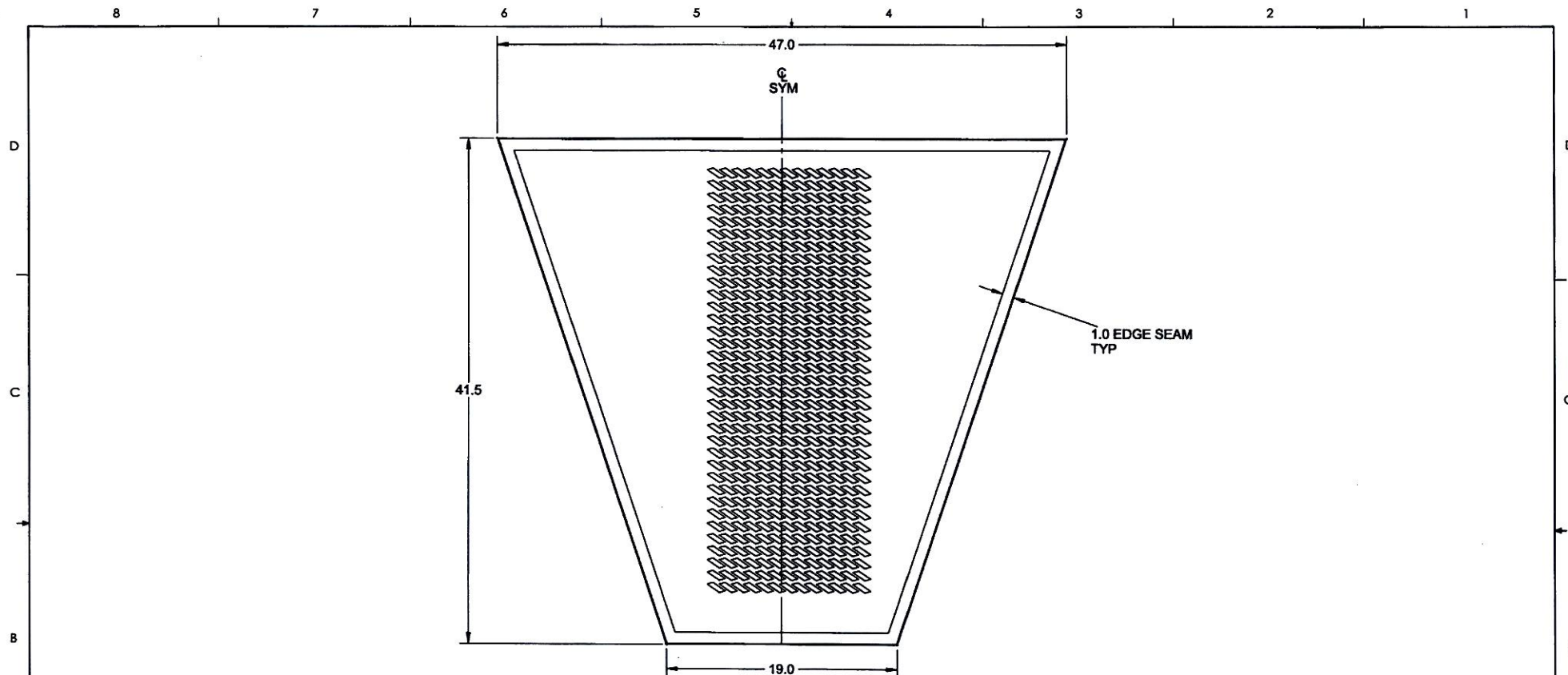
8 7 6 5 4 3 2 1

D

C

B

A



D5366-3 TOP PANEL MESH

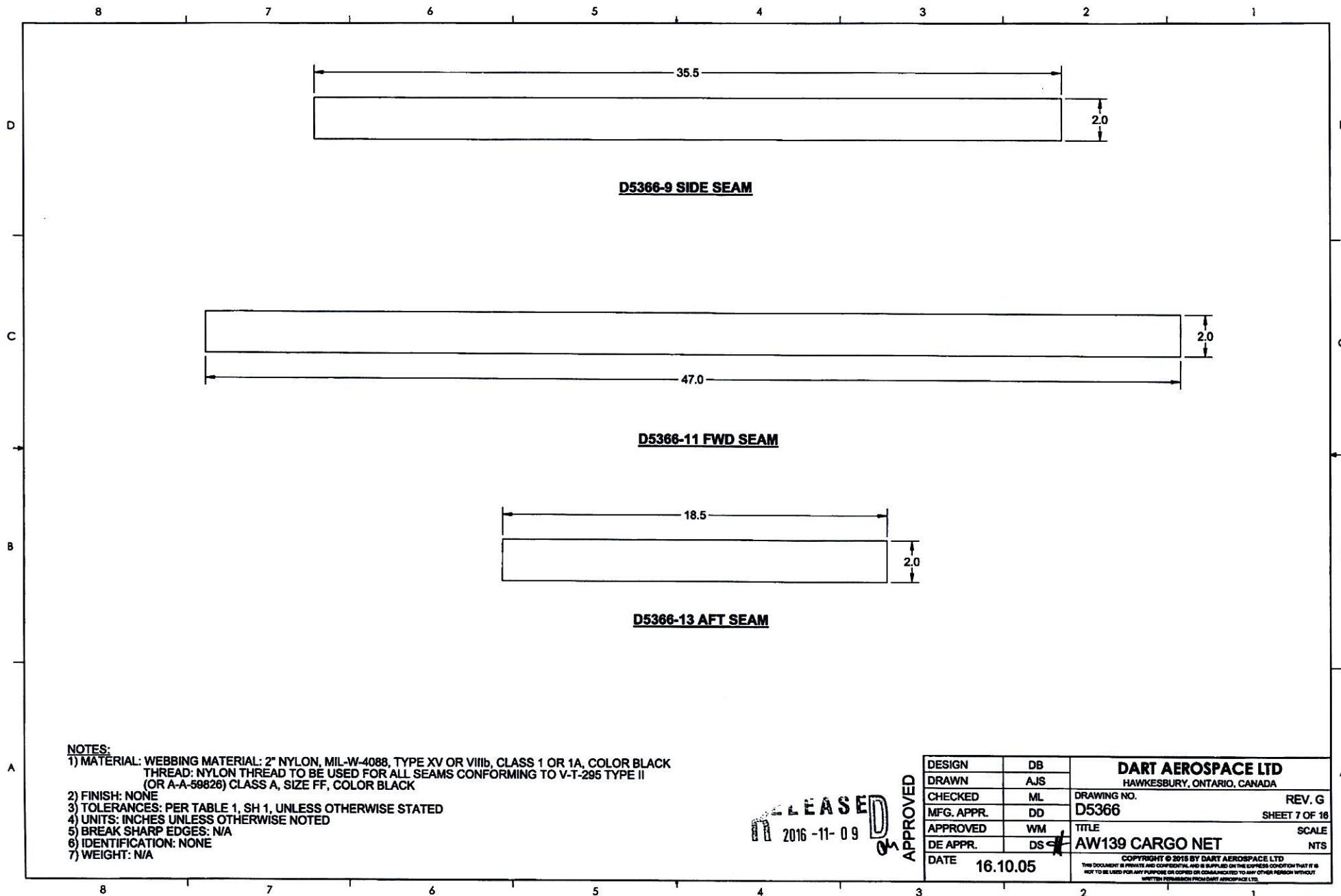
NOTES:

- 1) MATERIAL: 100% H.T. NYLON MESH BLACK (NOM. 12 X 24 HOLES PER INCH), 0.045 THICK, STYLE TP21J (APEX MILLS CORPORATION) OR MARION #8885
- 2) FINISH: NONE
- 3) TOLERANCES: PER TABLE 1, SH 1, UNLESS OTHERWISE STATED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: N/A

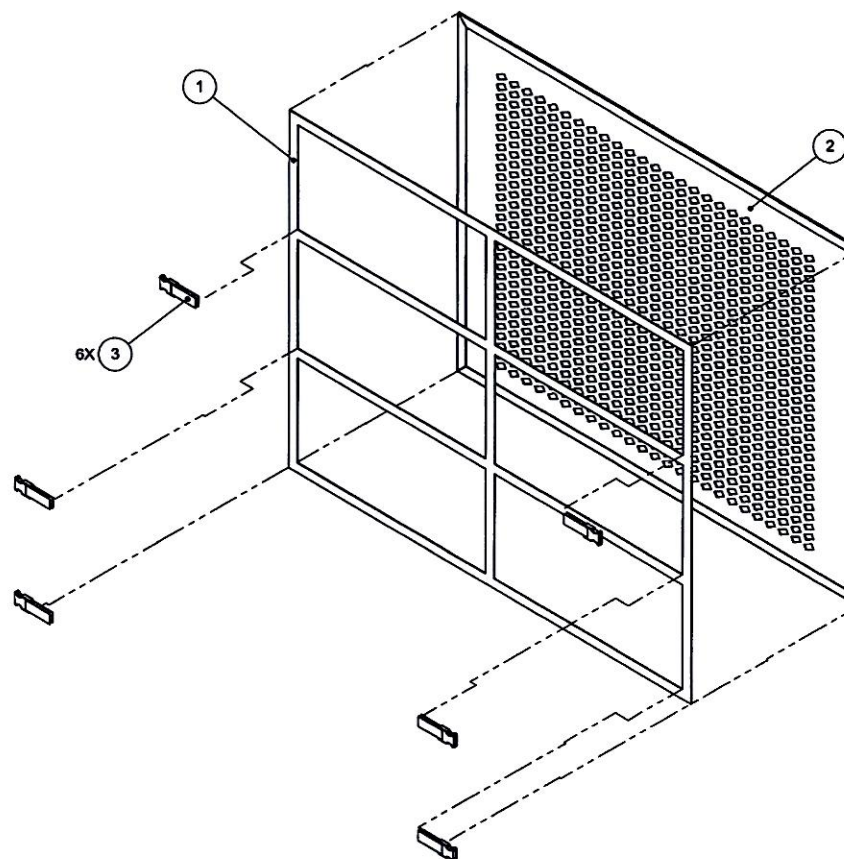
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2016-11-09

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DRAWN	AJS		
CHECKED	ML	DRAWING NO.	REV. G
MFG. APPR.	DD	D5366	SHEET 6 OF 16
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ITEM	QTY -045	P/N	DESCRIPTION
	X	D5366-045	FWD PANEL ASSY
1	1	D5366-15	FWD PANEL WEBBING
2	1	D5366-17	FWD PANEL MESH
3	6	D5366-23	BUCKLE STRAP



D5366-045 FWD PANEL ASSY 
(EXPLODED VIEW)

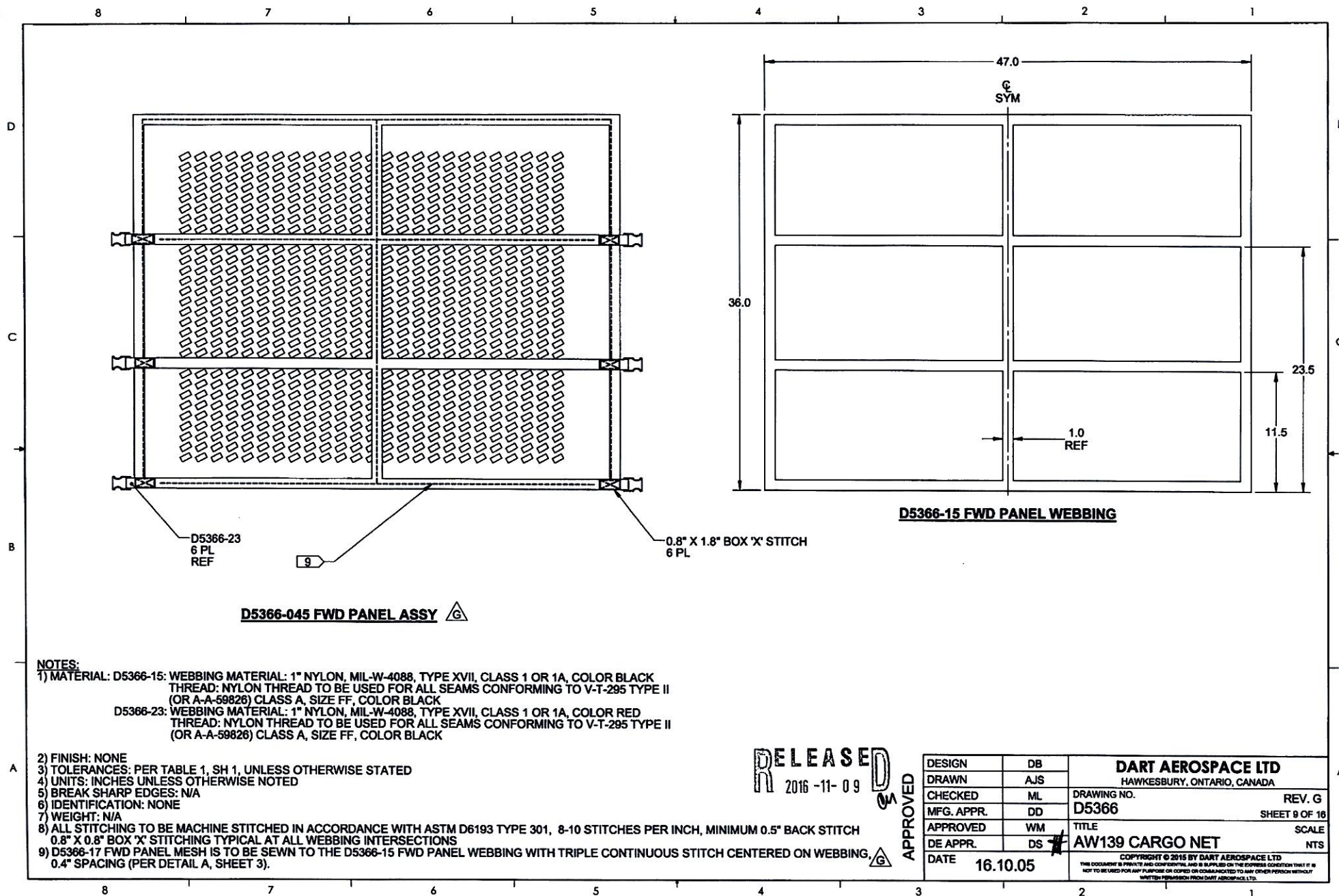
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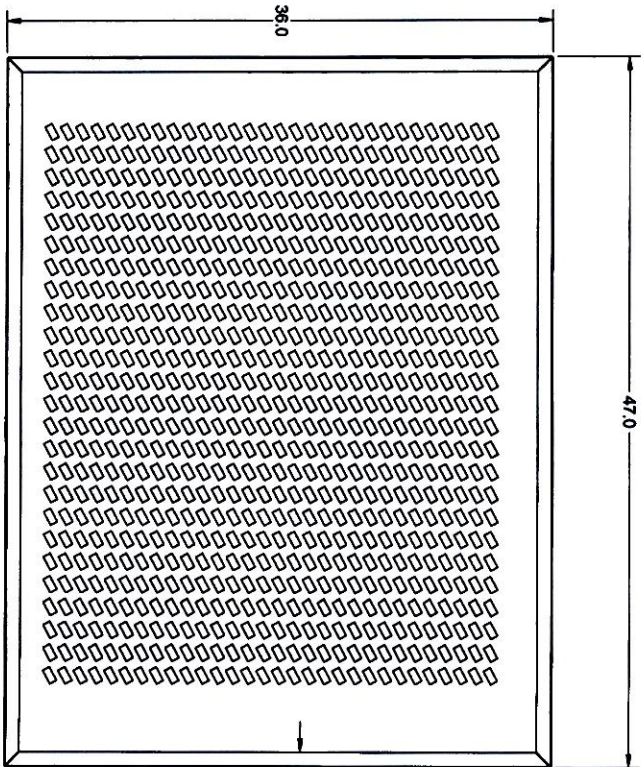
- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER TABLE 1, SH 1, UNLESS OTHERWISE STATED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: N/A
- 8) ALL STITCHING TO BE MACHINE STITCHED IN ACCORDANCE WITH ASTM D6193 TYPE 301, 8-10 STITCHES PER INCH, MINIMUM 0.5" BACK STITCH
0.8" X 0.8" BOX 'X' STITCHING TYPICAL AT ALL WEBBING INTERSECTIONS

RELEASED
2016-11-09

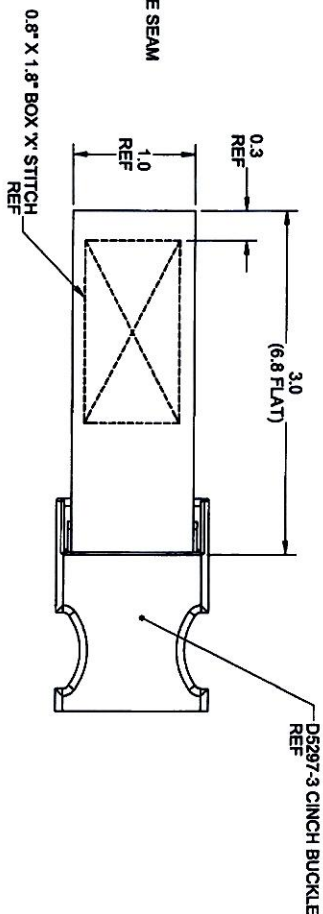
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DESIGN	DB	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	AJS		
CHECKED	ML	DRAWING NO.	REV. G
MFG. APPR.	DD	D5366	SHEET 8 OF 18
APPROVED	WM	TITLE	SCALE
DE APPR.	DS	AW139 CARGO NET	NTS
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D5366-17 FWD PANEL MESH



D5366-23 BUCKLE STRAP
6 PL



- NOTES:**
- 1) MATERIAL: 100% H.T. NYLON MESH BLACK (NOM. 12 X 24 HOLES PER INCH), 0.045 THICK, STYLE TP211 (APEX MILLS CORPORATION) OR MARION #8885
 - 2) FINISH: NONE
 - 3) TOLERANCES: PER TABLE 1, SH 1, UNLESS OTHERWISE STATED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: N/A
 - 6) IDENTIFICATION: NONE
 - 7) WEIGHT: N/A

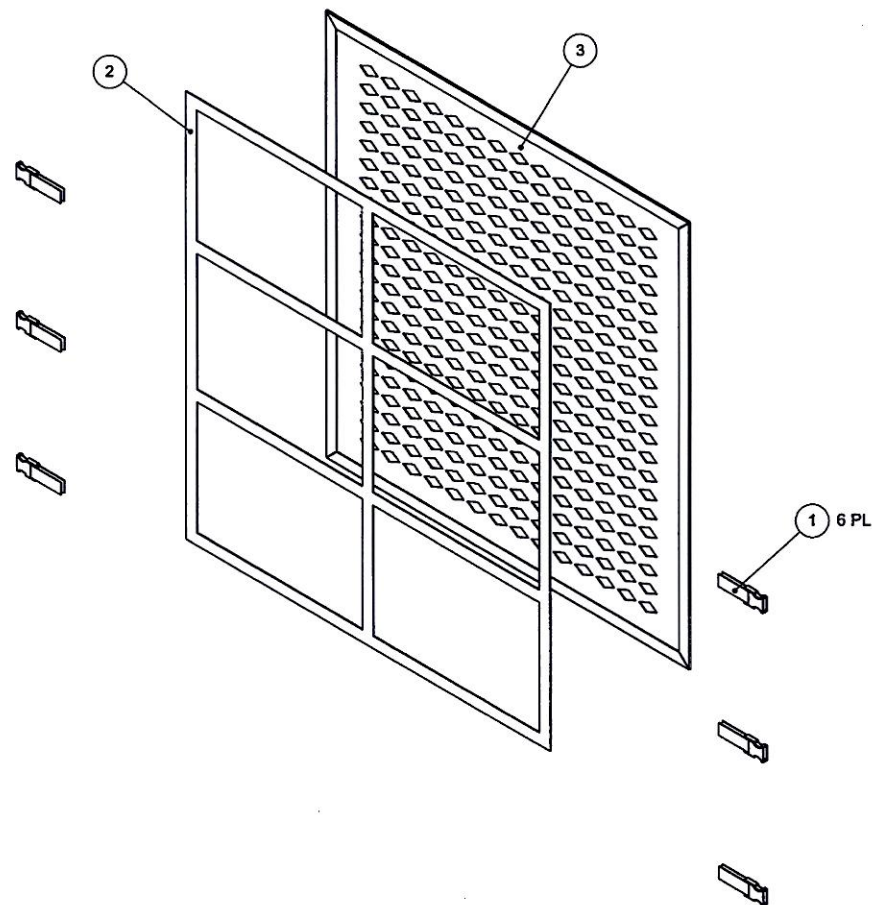
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2016-11-09

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DESIGN	DB	DART AEROSPACE LTD
DRAWN	AJS	HAWKESBURY, ONTARIO, CANADA
CHECKED	ML	
MFG. APPR.	DD	
APPROVED	WM	
DE APPR.	DS	
DATE	16.10.05	
DRAWING NO. D5366		
TITLE AW139 CARGO NET		
SHEET 10 OF 16		
SCALE		
NTS		

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ITEM	QTY -047	P/N	DESCRIPTION
	X	D5366-047	AFT PANEL ASSY
1	6	D5366-23	BUCKLE STRAP
2	1	D5366-25	AFT PANEL WEBBING
3	1	D5366-27	AFT PANEL MESH



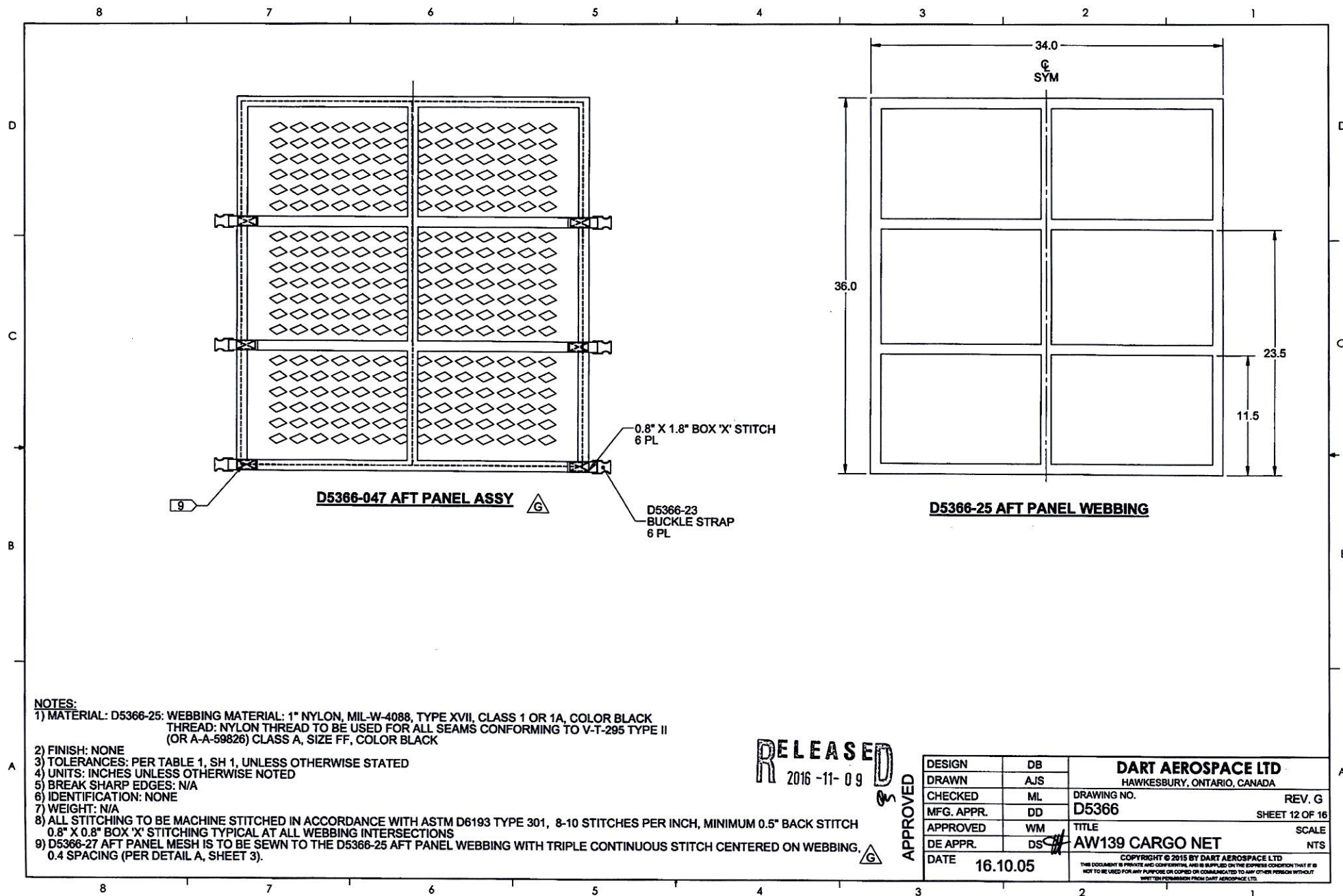
D5366-047 AFT PANEL ASSY
(EXPLODED VIEW)

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER TABLE 1, SH 1, UNLESS OTHERWISE STATED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: N/A
- 8) ALL STITCHING TO BE MACHINE STITCHED IN ACCORDANCE WITH ASTM D6193 TYPE 301, 8-10 STITCHES PER INCH, MINIMUM 0.5" BACK STITCH
0.8" X 0.8" BOX 'X' STITCHING TYPICAL AT ALL WEBBING INTERSECTIONS

RELEASED
2016-11-09
APPROVED

DESIGN	DB	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	AJS		
CHECKED	ML	DRAWING NO. D5366	REV. G
MFG. APPR.	DD	SHEET 11 OF 16	
APPROVED	WM	TITLE	SCALE
DE APPR.	DS	AW139 CARGO NET	NTS
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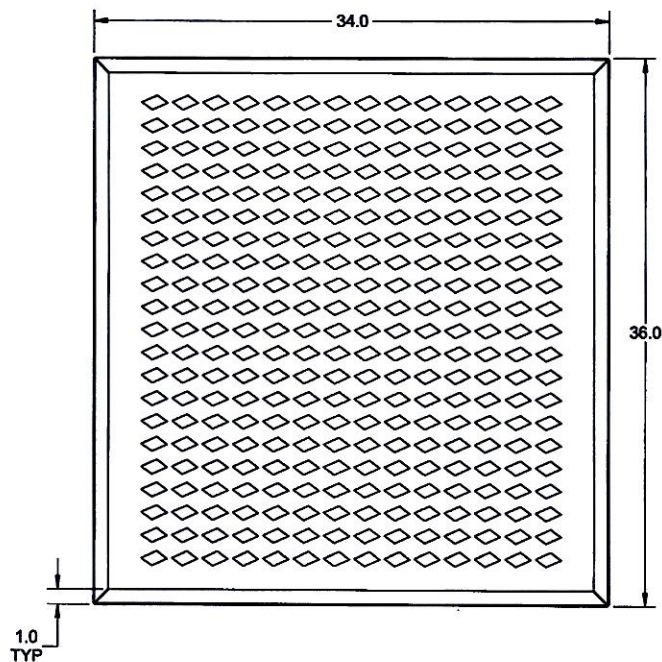
NOTES:

- 1) MATERIAL: D5366-25: WEBBING MATERIAL: 1" NYLON, MIL-W-4088, TYPE XVII, CLASS 1 OR 1A, COLOR BLACK
THREAD: NYLON THREAD TO BE USED FOR ALL SEAMS CONFORMING TO V-T-295 TYPE II
(OR A-A-59826) CLASS A, SIZE FF, COLOR BLACK
- 2) FINISH: NONE
- 3) TOLERANCES: PER TABLE 1, SH 1, UNLESS OTHERWISE STATED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: N/A
- 8) ALL STITCHING TO BE MACHINE STITCHED IN ACCORDANCE WITH ASTM D6193 TYPE 301, 8-10 STITCHES PER INCH, MINIMUM 0.5" BACK STITCH
0.8" X 0.8" BOX 'X' STITCHING TYPICAL AT ALL WEBBING INTERSECTIONS
- 9) D5366-27 AFT PANEL MESH IS TO BE SEWN TO THE D5366-25 AFT PANEL WEBBING WITH TRIPLE CONTINUOUS STITCH CENTERED ON WEBBING,
0.4 SPACING (PER DETAIL A, SHEET 3).

RELEASED
2016 -11- 09

APPROVED

DESIGN	DB	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	AJS		
CHECKED	ML	DRAWING NO. D5366	REV. G
MFG. APPR.	DD	SHEET 12 OF 16	
APPROVED	WM	TITLE	SCALE
DE APPR.	DS	AW139 CARGO NET	NTS
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D5366-27 AFT PANEL MESH

NOTES:

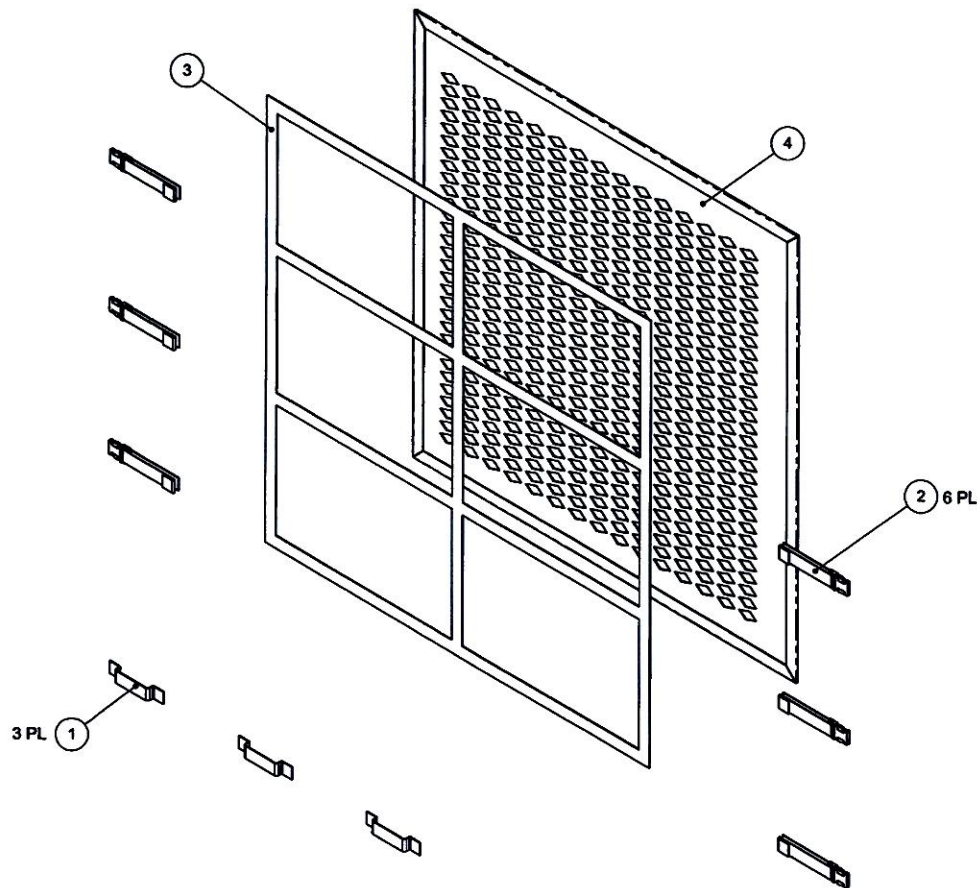
- 1) MATERIAL: 100% H.T. NYLON MESH BLACK (NOM. 12 X 24 HOLES PER INCH), 0.045 THICK, STYLE TP21J (APEX MILLS CORPORATION)
OR MARION #8885
- 2) FINISH: NONE
- 3) TOLERANCES: PER TABLE 1, SH 1, UNLESS OTHERWISE STATED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: N/A

RELEASED
2016-11-09

APPROVED

DESIGN	DB	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	AJS		
CHECKED	ML	DRAWING NO.	REV. G
MFG. APPR.	DD	D5366	SHEET 13 OF 16
APPROVED	WM	TITLE	SCALE
DE APPR.	DS	AW139 CARGO NET	NTS
DATE	16.10.05	COPYRIGHT © 2015 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

ITEM	QTY	P/N	DESCRIPTION
	X	D5366-049	SIDE PANEL ASSY
1	3	D5366-7	SHORT LOOP
2	6	D5366-31	CINCH STRAP
3	1	D5366-33	SIDE PANEL WEBBING
4	1	D5366-35	SIDE PANEL MESH



D5366-049 SIDE PANEL ASSY
(EXPLODED VIEW) 

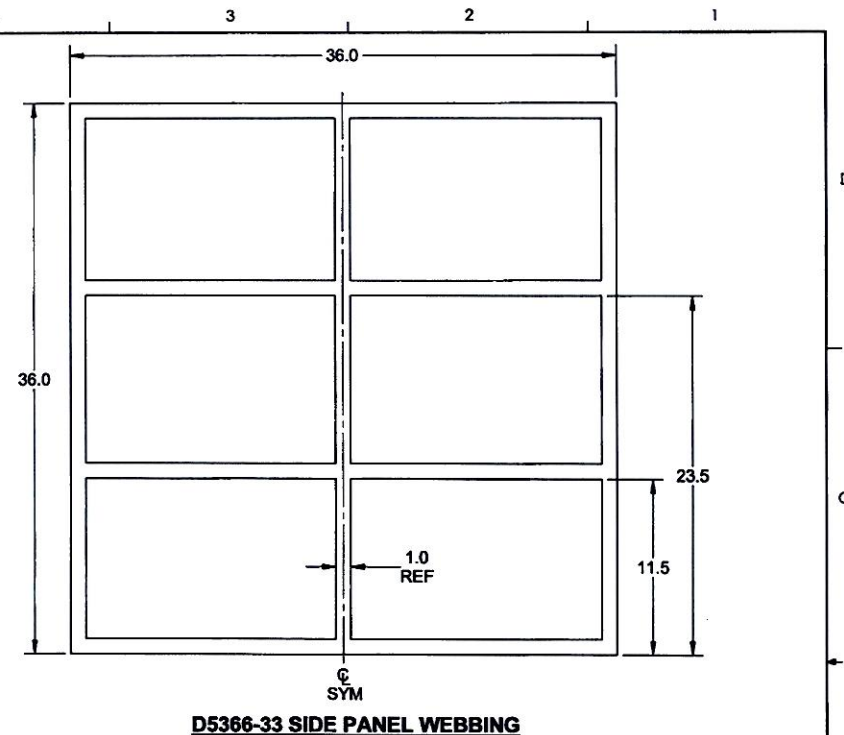
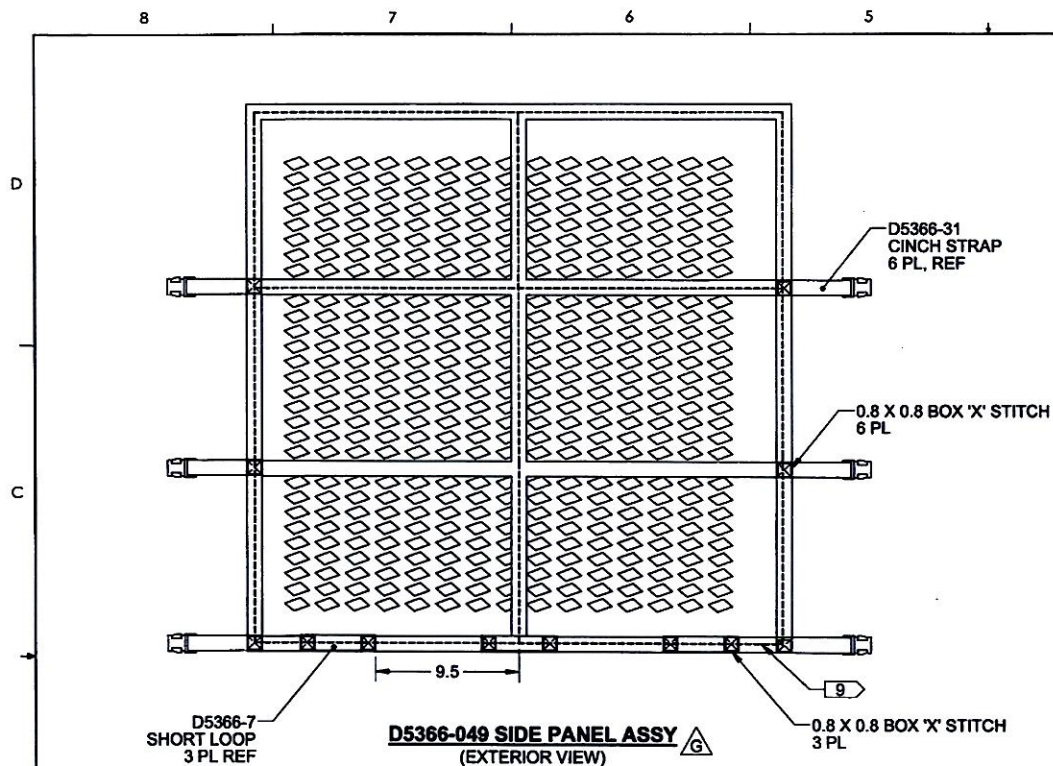
NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER TABLE 1, SH 1, UNLESS OTHERWISE STATED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: N/A
- 8) ALL STITCHING TO BE MACHINE STITCHED IN ACCORDANCE WITH ASTM D6193 TYPE 301, 8-10 STITCHES PER INCH, MINIMUM 0.5" BACK STITCH
0.8" X 0.8" BOX 'X' STITCHING TYPICAL AT ALL WEBBING INTERSECTIONS

RELEASED
2016-11-09

APPROVED

DESIGN	DB	DART AEROSPACE LTD	
DRAWN	AJS	HAWKESBURY, ONTARIO, CANADA	
CHECKED	ML	DRAWING NO.	REV. G
MFG. APPR.	DD	D5366	SHEET 14 OF 16
APPROVED	WM	TITLE	SCALE
DE APPR.	DS	AW139 CARGO NET	NTS
DATE	16.10.05	COPYRIGHT © 2015 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	



NOTES:

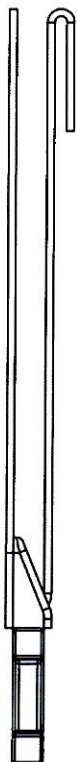
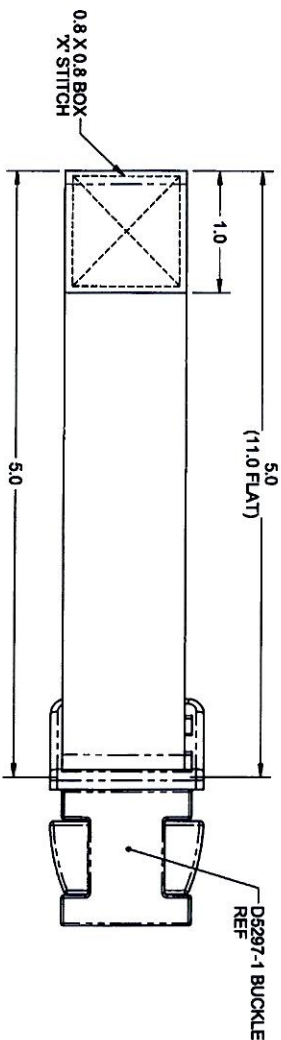
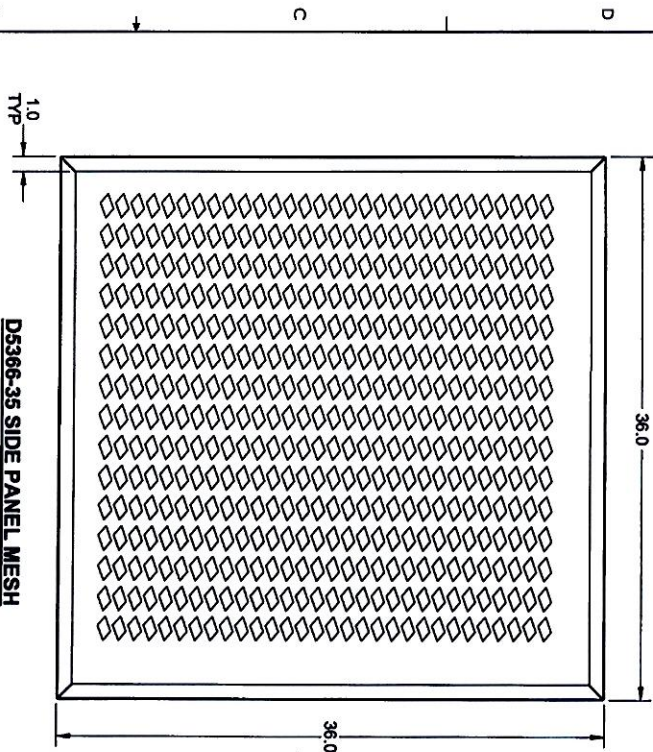
- 1) MATERIAL: D5366-33: WEBBING MATERIAL: 1" NYLON, MIL-W-4088, TYPE XVII, CLASS 1 OR 1A, COLOR BLACK
THREAD: NYLON THREAD TO BE USED FOR ALL SEAMS CONFORMING TO V-T-295 TYPE II (OR A-A-59826) CLASS A, SIZE FF, COLOR BLACK
D5366-31: WEBBING MATERIAL: 1" NYLON, MIL-W-4088, TYPE XVII, CLASS 1 OR 1A, COLOR RED
THREAD: NYLON THREAD TO BE USED FOR ALL SEAMS CONFORMING TO V-T-295 TYPE II (OR A-A-59826) CLASS A, SIZE FF, COLOR BLACK

- 2) FINISH: NONE
- 3) TOLERANCES: PER TABLE 1, SH 1, UNLESS OTHERWISE STATED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: N/A
- 8) ALL STITCHING TO BE MACHINE STITCHED IN ACCORDANCE WITH ASTM D6193 TYPE 301, 8-10 STITCHES PER INCH, MINIMUM 0.5" BACK STITCH
0.8" X 0.8" BOX 'X' STITCHING TYPICAL AT ALL WEBBING INTERSECTIONS
- 9) D5366-35 SIDE PANEL MESH IS TO BE SEWN TO THE D5366-33 SIDE PANEL WEBBING WITH TRIPLE CONTINUOUS STITCH CENTERED ON WEBBING,
0.4 SPACING (PER DETAIL A, SHEET 3).

RELEASED
2016-11-09

APPROVED

DESIGN	DB	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	AJS		
CHECKED	ML	DRAWING NO. D5366	REV. G
MFG. APPR.	DD	SHEET 15 OF 18	
APPROVED	WM	TITLE	SCALE
DE APPR.	DS	AW139 CARGO NET	NTS
DATE	16.10.05	COPYRIGHT © 2015 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	



D5366-31 CINCH STRAP

- NOTES:**
- 1) MATERIAL: 100% H.T. NYLON MESH BLACK (NOM. 12 X 24 HOLES PER INCH), 0.045 THICK, STYLE TP21J (APEX MILLS CORPORATION)
 - 2) FINISH: NONE
 - 3) TOLERANCES: PER TABLE 1, SH 1, UNLESS OTHERWISE STATED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: N/A
 - 6) IDENTIFICATION: NONE
 - 7) WEIGHT: N/A

RELEASED
2016-11-09

APPROVED

DESIGN	DB	DART AEROSPACE LTD
DRAWN	AJS	HAWKESBURY, ONTARIO, CANADA
CHECKED	ML	DRAWING NO. D5366
MFG. APPR.	DD	REV. G
APPROVED	VM	SHEET 16 OF 16
DE APPR.	DS	SCALE
DATE	16.10.05	NTS
TITLE AW139 CARGO NET		

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Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO35247

Purchase Order Date 2/8/2017

PO Print Date 2/16/2017

Page Number 3 of 3

Order From :

VC-TUL001

Ship To : DART AEROSPACE LTD

TULMAR SAFETY SYSTEMS
1123 CAMERON ST
HAWKESBURY, ON K6A 2B8
CA

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 613 632 1282

Ship To Contact

Ship To Phone

Ship Via: VENDOR'S TRUCK

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

5	71401-45	PROCUREMENT QUALITY CLAUSES	2/16/2017	1.00	\$0.00	\$0.00
---	----------	--------------------------------	-----------	------	--------	--------

No

Procurement Quality Clauses

2/16/2017

A004 faa-pma/tso

A005 right of entry

A007 first article inspection (fai)

A016 personnel qualification

A026 certification of material conformance

A040 notification of quality escape

A041 quality management system

A043 retention of quality document

TSS = 5 YRS ONLY

Line Total: \$0.00

6 D5366-041P

Cargo Net Assembly

2/16/2017 FN

Yes

2/16/2017

1.00

Each

\$750.00 \$750.00

AS PER DWG D5366 REV. G
B157162

Split-02-16

Line Total: \$750.00

PO Total: \$3,350.00

h c2

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 2

Change Date: 2/16/2017

PACKING SLIP

TULMAR

Packing Slip No Page

59467

1

Tulmar Safety Systems Inc.
1123 Cameron Street
Hawkesbury, ON K6A 2B8

Tel: 613-632-1282
Fax: 613-632-2030
GST R132478223
MID : XOTULSAF1123HAW
email: info@tulmar.com

Ship Date

2/16/2017

Bill To:

Dart Aerospace

1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Canada

Ship To:

Dart Aerospace

1270 Aberdeen Street
Tel: 613-632-9577
Hawkesbury, ON K6A 1K7
Canada

Order number	Sales order date	Account number	Loc	Account manager
34000	7/7/2016	CDART100	H	Francine Bigras
PO number	Ship via	Shipping Terms		
PO32930	Pick-Up	FOB ORIGIN		

Item No.	Quantity ordered	UOM	Qty Shipped/Returned	Quantity on back order
Description				

LN 24 QC Clauses:

A004 A005 A007 A016 A026 A040 A041

A043 (5 yrs only)

87249-001	7.00	EA	1.00	6.00
-----------	------	----	------	------

Cargo Net, AW 139

Drawing No: D139-1012-041

DWG Rev: E

SF 40335 Q7

Lines 1, 2, 3, 4, 5, 10, 11, 12

**Includes Statement "Product made to the dwg, except for 1" & 2" red webbings

not certified to FAR.29.853a3"

**Price adjust Oct. 27th, 2016 - New

Deisgn - D5366- Rev. D

Lot no.: BATCH0000000004

1.00

SP17-0216

Certificate of Conformance

☒ See Certification Enclosed

I hereby certify that the items listed hereon have been inspected, and / or tested (as applicable), conform to all specifications and requirements detailed in the contract or purchase order. Objective evidence to support this statement is on file, and can be made available upon request.
If any questions or concerns, please contact QA Manager @ 613-632-1282 ext. 245.

Authorized Inspector

Lorraine LaLiberte

Date:

FEB 16 2017



CERTIFICATE

Number: 239030-3368

Bally Ribbon Mills
23 North 7th St. Bally PA 19503
p 610.845.2211 f 610.845.8013

02/07/17

Qualified Lab - List No. 1935

Customer	TULMAR SAFETY SYSTEMS	Memo No.	439436
Purchase Order No.	31055-00	Shipment	
Specifications	MIL-W-4088K TYPE XXIV CLASS 1a	Shipped Via	FED. EXPRESS #1
Contract No.	LOT #9C9450 DOM:06/16 UV, MOULD, FUNGUS RESISTANT	Quantity	323 YD
BALLY RIBBON MILLS	403501937RD	Lot Quantity	2824 YDS
Pattern No.	4035-1 15/16" RED NYLON WEBBING		

CERTIFICATE OF CONFORMANCE

I CERTIFY THAT THIS PATTERN CONFORMS WITH THE PHYSICAL, CHEMICAL AND VISUAL QUALITY REQUIREMENTS OF THE MILITARY SPECIFICATIONS LISTED ABOVE AND THE FAR 25.853(A) APPENDIX F, PART 1, SUBSECTION (A)(1)(II) FLAMMABILITY REQUIREMENTS PER FEDERAL STD. 191, METHOD 5903. NOTE: THIS CERT IS FOR BRM TESTING ONLY AND DOES NOT INDICATE FAA ACCEPTANCE.

Jerome Richards, Quality Assurance Manager

C/C's used for mfg.

D5485-041
D5485-043
D5486-041
D5486-043

} Rev. B

Jeanine Laliberté
(QC)

Feb. 15/17

2282-001

#1

FEB 14 2017





LAB REPORT

PAGE: 1

Number: 239030-3072

Bally Ribbon Mills
23 North 7th St. Bally PA 19503
p 610.845.2211 f 610.845.8013

02/07/17

Qualified Lab - List No. 1935

Customer TULMAR SAFETY SYSTEMS
Purchase Order No. 31055-00
Specifications MIL-W-4088K TYPE XXIV CLASS 1a
Contract No. UV, MOULD, FUNGUS RESISTANT
DOM: 06/16 LOT: 9C9450
BALLY RIBBON MILLS 403501937RD
Pattern No. 4035-1 15/16" RED NYLON WEBBING

Shipped Via FED. EXPRESS #1

Memo No. 439436
Shipped Qty 323 YD

Lot Qty 2824

-----TESTS----- *-----TEST RESULTS-----* AVERAGE *---REQUIREMENT---* METHOD

FAR 25.853(a) APPENDIX F
PART 1. SUBSECTION (a)(1)(IV)
BURN RATE 0 0 0 2.5" / 1 MIN MAX
PART 1 SUBSECTION (a)(1)(II),
CHARLENGTH: 1/2" 1/2" 1/2" : 8" MAX
BURN TIME: 6.9S 7.0S 6.9S : 15 SEC MAX
FLAMEDRIPPS: 0 0 0 : 5 SEC MAX
S/E : Y Y Y : S/E

WIDTH	1.937	1.968	1.937	1.937	1.968	1.9494	1 15/16" +/-3/32"	5020
	1.937	1.937	1.968	1.937	1.968	1.9494		
	1.937	1.937	1.968	1.937	1.937	1.9432		
THICKNESS	.07	.0685	.0695	.069	.069	.0692	.055" TO .075"	5030
	.07	.0685	.069	.07	.0695	.0694		
	.0685	.07	.069	.069	.069	.0691		
WEIGHT	2.214	2.203	2.211	2.205	2.208	2.2082	2.25 OZ/YD MAXIMUM	5041
	2.223	2.218	2.226	2.22	2.221	2.2216		
	2.204	2.206	2.224	2.204	2.206	2.2088		
FACE AND BACK WARP ENDS	244	244	244	244	244	244	244 ENDS MINIMUM	5050
	244	244	244	244	244	244		
	244	244	244	244	244	244		
840 DENIER NYLON, 2 PLY, BRT HIGH TENACITY HEAT & LIGHT RESISTANT, NYLON 6.6								
GROUND YARN DENIER	840	840				840	840 DENIER	4021 1/
	840	840				840		
	840	840				840		
GROUND YARN TWIST/INCH	2.5	2.5				2.5	2 1/2 TPI MINIMUM	4054 2/
	2.5	2.5				2.5		
	2.5	2.5				2.5		
GROUND YARN PLY	2	2				2	2 PLY	VISUAL
	2	2				2		
	2	2				2		
PICKS PER INCH	35	35	35	35	35	35	34 PICKS MINIMUM	5050
	35	35	35	35	35	35		
	35	35	35	35	35	35		
420 DENIER NYLON, 3 PLY, BRT HIGH TENACITY HEAT & LIGHT RESISTANT, NYLON 6.6 CATCHCORD - 70 DENIER BLACK POLYESTER								
FILL YARN DENIER	420	420				420	420 DENIER	4021 1/
	420	420				420		
	420	420				420		
FILL YARN PLY	3	3				3	3 PLY	VISUAL
	3	3				3		
	3	3				3		

Continued on Next Page



LAB REPORT

PAGE: 3

Number: 239030-3072

Bally Ribbon Mills
23 North 7th St. Bally PA 19503
p 610.845.2211 f 610.845.8013

02/07/17

Qualified Lab - List No. 1935

Customer TULMAR SAFETY SYSTEMS
Purchase Order No. 31055-00
Specifications MIL-W-4088K TYPE XXIV CLASS 1a
Contract No. UV, MOULD, FUNGUS RESISTANT
DOM: 06/16 LOT: 9C9450
ALLY RIBBON MILLS 403501937RD
Pattern No. 4035-1 15/16" RED NYLON WEBBING

Shipped Via FED. EXPRESS #1

Memo No. 439436
Shipped Qty 323 YD

Lot Qty 2824

-----TESTS----- *-----TEST RESULTS-----*

NYLON MELTING POINT

494 494
494 494
494 494

AVERAGE *---REQUIREMENT---* METHOD

494 1534
494
494



FEB 14 2017

I certify that the above tests were performed under my supervision in accordance with the specification test requirements and that the reported test results are true, valid and applicable to the samples tested.

Jerome Richards

Jerome Richards, Quality Assurance Manager

2282-001
B #1



cansew inc.

formerly / anciennement
Canadian Sewing Supply Ltd. / Ltée – established / établie 1924

Manufacturers of sewing threads. / Wholesalers of elastics, Velcro, tapes, trimmings.
Fabricants de fils à coudre. / Grossistes d'élastiques, Velcro, galons, garnitures.

20 October 2008

Tulmar Safety Systems
1123 Cameron Street
Hawksbury, Ontario
K6A 2B8

Att. Sandra Nadeau

CERTIFICATE OF COMPLIANCE

This is to certify that the items mentioned below, shipped to Tulmar Safety Systems by CANSEW INC. on 20 October 2008, have been produced in accordance with the requirements of Purchase Order no. 14929-00 of the same date:

-Bonded Nylon CBB92 – 35.18 lb, colour OG-107, lot # 748348, meeting the requirements of specification V-T-295, Type 2, Class A, Size F

✱ Bonded Nylon CB207 – 19.96 lb, colour black, lot # 656160, meeting the requirements of specification V-T-295, Type 2, Class A, Size 3, 3 ply

Yours truly,

for:


Hershie Schachter
CANSEW INC.

MONTREAL - Head Office/Siège social
111 Chabanel W / O H2N 1C9
Administration (514) 382-2807
Commandes/Orders (514) 382-2801
1-800-361-7722
FAX: (514) 385-5530

TORONTO
28 Apex Rd. M6A 2V2
(416) 782-1122
1-800-387-8584
FAX: (416) 782-8358

WINNIPEG
1674 Church Ave R2X 2W9
(204) 942-4264
1-800-665-0701
FAX: (204) 947-9280

CALGARY
3932 - 29th St. N.E. T1Y 6B6
(403) 291-4494
1-800-667-4197
FAX: (403) 291-5139

VANCOUVER
1615 Venables St. V5L 2H1
(604) 682-4341
1-800-580-0737
FAX: (604) 682-4196

info@cansew.ca

www.cansew.ca

TSS # 2525/42. (S)

June 7, 2016

TULMAR SAFETY SYSTEMS
 1123 CAMERON STREET
 HAWKSBURY, ONTARIO
 K6A 2B8

CERTIFICATE OF COMPLIANCE

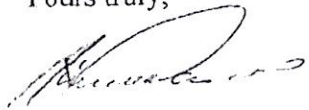
This is to certify that the item mentioned below, shipped to Tulmar Safety Systems by Cansew Inc. on June 7, 2016, has been produced in accordance with the requirements of Purchase Order no. 30203-00 of the same date:

- **NB CBB92 LB;** Cansew Nylon – Qty 44.26 lbs, Colour: Black
 LOT #: F78826

Description
 Thread, Nylon, Twisted, Black, A-A-59826, TY2, CLA, Size F, CBB92, (Supercedes V-T-295)

Hazardous Materials Acknowledgement	The items described below may contain, and their processing may have include, the following substances:	Hexavalent Chromium: Cadmium: Beryllium; Nickel; Mercury; Lead; Asbesotos; Radioactive elements YES NO ●
Country of Origin of Goods: USA		
Limited Shelf-Life	<u>Definition:</u> If material is consumed or transformed into final product before end of shlf-life there is no effect on final product.	These items have limited Shelf-Life YES NO ●
Expiry date	<u>Definition:</u> Date after which performance will no longer be as intended – expiration is transferred to the final product.	These items have expiry date YES NO ●

Yours truly,



Richard Doré
 Sales Manager



JUN 08 2016

2530 B#56

MONTREAL
 111 Chabanel W. H2N 1C9
 Tel. (514) 382-2801
 1-800-361-7722
 Fax: (514) 385-5530
 E-mail: info@cansew.ca
www.cansew.ca

TORONTO
 28 Apex Rd. M6A 2V2
 (416)782-1122
 1-800-387-8584
 (416)782-8358
info@cansew.ca

WINNIPEG
 1674 Church Ave. R2X 2W9
 (204)942-4264
 1-800-665-0701
 (204)947-9280
info@cansew.ca

CALGARY
 3932-29th St. N.E. T1Y 6B6
 (403)291-4494
 1-800-667-4197
 (403)291-5139
info@cansew.ca

VANCOUVER
 1217 East Georgia St. V6A 2A9
 (604)682-4341
 1-800-580-0737
 (604)682-4196
info@cansew.ca

May 20, 2016

Tulmar Safety Systems
1123 Cameron Street
Hawkesbury, ON K6A 2B8
CANADA



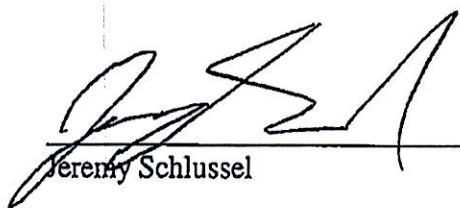
Problem Shared.
Problem Solved.™

168 Doughty Blvd.
Inwood, NY 11096
USA

Certificate of Conformance

Part Number	1753-001
Style	TP21J
Color	Black
PO	30129-00
Yardage	130 yds.
Lot Number	F23872

This is to certify that the material listed above was tested and passed FAR25.853.


Jeremy Schlusel

Quality Control Specialist

JS:db

MAY 31 2016



CofC's
use to MAg
D5366-041
All. Chk
FEB 16/2017
REV. 6
1753-001
B #1



Bally Ribbon Mills
23 North 7th St. Bally PA 19503
p 610.845.2211 f 610.845.8013

06/02/16

CERTIFICATE

Number: 237437-7596

Qualified Lab - List No. 1935

Customer	TULMAR SAFETY SYSTEMS	Memo No.	431476
Purchase Order No.	30196-00	Shipment	
Specifications	MIL-W-4088K TYPE VIIIB CL.1	Shipped Via	FEDX PRIORITY 1
Contract No.	LOT #9C8905 DOM:04/16 UV, MOULD, FUNGUS RESISTANT	MEETS (A) (I) (V)	
BALLY RIBBON MILLS	938102000BKFT	Quantity	108 YD
Pattern No.	9381-2" BLACK FLAME RESIST. TREATED NYL.	Lot Quantity	1247 YDS

CERTIFICATE OF CONFORMANCE

I CERTIFY THAT THIS PATTERN CONFORMS WITH THE PHYSICAL, CHEMICAL AND VISUAL QUALITY REQUIREMENTS OF THE MILITARY SPECIFICATIONS LISTED ABOVE AND THE FAR 25.853(A) APPENDIX F, PART 1, SUBSECTION (A) (1) (II) FLAMMABILITY REQUIREMENTS PER FEDERAL STD. 191, METHOD 5903. NOTE: THIS CERT IS FOR BRM TESTING ONLY AND DOES NOT INDICATE FAA ACCEPTANCE.

Jerome Richards, Quality Assurance Manager



2227-002

B#1

JUN 07 2016



Bally Ribbon Mills
23 North 7th St. Bally PA 19503
p 610.845.2211 f 610.845.8013

06/02/16

LAB REPORT

Number: 237437-5117

PAGE: 1

Qualified Lab - List No. 1935

Customer	TULMAR SAFETY SYSTEMS		
Purchase Order No.	30196-00	Shipped Via	FEDX PRIORITY 1
Specifications	MIL-W-4088K TYPE VIIIB CL.1	Memo No.	431476
Contract No.	UV, MOULD, FUNGUS RESISTANT	Shipped Qty	108 YD
	DOM: 04/16 LOT: 9C8905		
BALLY RIBBON MILLS	938102000BKFT	Lot Qty	1247
Pattern No.	9381-2" BLACK FLAME RESIST. TREATED NYL.WEBBING		

-----TESTS----- *-----TEST RESULTS-----* AVERAGE *---REQUIREMENT---* METHOD

FAR 25.853 (a) APPENDIX F
PART 1 SUBSECTION (a) (1) (II),
CHARLENGTH: 1 1/4" 1 3/8" 1 5/16" : 8" MAX
BURN TIME : 5.2S 8.2S 5.6S : 15 SEC MAX
FLAMEDRIPPS: 0 0 0 : 5 SEC MAX
S/E : Y Y Y : S/E
FAR 29.853, (a) (1) (V)
BURN RATE 0 0 0 4"/MIN MAX

WIDTH	2.031	2	1.968	2.015	1.984	1.9996	2" +/-1/16"	5020
	2	2	1.968	1.984	2	1.9904		
	2.031	2.015	2	2	2.015	2.0122		
THICKNESS	.052	.052	.053	.053	.053	.0526	.040" TO .070"	5030
	.053	.052	.052	.053	.052	.0524		
	.052	.053	.053	.052	.052	.0524		
WEIGHT	1.67	1.676	1.679	1.674	1.676	1.675	1.80 OZ/YD MAXIMUM	5041
	1.676	1.674	1.678	1.674	1.67	1.6744		
	1.674	1.676	1.671	1.676	1.674	1.6742		
FACE AND BACK WARP ENDS	192	192	192	192	192	192	192 ENDS MINIMUM	5050
	192	192	192	192	192	192		
	192	192	192	192	192	192		
	840 DENIER NYLON, 2 PLY, BRT HIGH TENACITY HEAT & LIGHT RESISTANT, NYLON 6.6							
GROUND YARN DENIER	840	840				840	840 DENIER	4021 1/
	840	840				840		
	840	840				840		
GROUND YARN TWIST/INCH	2.5	2.5				2.5	2 1/2 TPI MINIMUM	4054 2/
	2.5	2.5				2.5		
	2.5	2.5				2.5		
GROUND YARN PLY	2	2				2	2 PLY	VISUAL
	2	2				2		
	2	2				2		
PICKS PER INCH	18	18	18	18	18	18	18 PICKS MINIMUM	5050
	18	18	18	18	18	18		
	18	18	18	18	18	18		
	840 DENIER NYLON, 2 PLY, BRT HIGH TENACITY HEAT & LIGHT RESISTANT, NYLON 6.6							
FILL YARN DENIER	840	840				840	840 DENIER	4021 1/
	840	840				840		
	840	840				840		
FILL YARN TWIST/INCH	2.5	2.5				2.5	2 1/2 TPI MINIMUM	3.3.1.2
	2.5	2.5				2.5		
	2.5	2.5				2.5		

Continued on Next Page



Bally Ribbon Mills
23 North 7th St. Bally PA 19503
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06/02/16

LAB REPORT

Number: 237437-5117

PAGE: 2

Qualified Lab - List No. 1935

Customer TULMAR SAFETY SYSTEMS

Purchase Order No. 30196-00

Shipped Via FEDX PRIORITY 1

Specifications MIL-W-4088K TYPE VIIIB CL.1
Contract No. UV, MOULD, FUNGUS RESISTANT
DOM: 04/16 LOT: 9C8905

Memo No. 431476
Shipped Qty 108 YD

BALLY RIBBON MILLS 938102000BKFT
Pattern No. 9381-2" BLACK FLAME RESIST. TREATED NYL.WEBBING

Lot Qty 1247

-----T E S T S-----	*-----T E S T R E S U L T S-----*						AVERAGE	*---REQUIREMENT---	METHOD
FILL YARN PLY	2	2					2	2 PLY	VISUAL
	2	2					2		
	2	2					2		
BREAKING STRENGTH	5464	5743	5831	5744	5569	5670.2	4500 LBS MINIMUM	4108	
	5376	5763	5504	5642	5649	5586.8			
	5744	5669	5591	5718	5595	5663.4			
WEAVE	PASS						PASS OR FAIL	VISUAL	
WEAVE	PASS						PASS OR FAIL	VISUAL	
WEAVE	PASS						PASS OR FAIL	VISUAL	
WEAVE	TWO UP, TWO DOWN HERRINGBONE TWILL W/ONE CENTER REVERSAL						PASS OR FAIL	VISUAL	
COLORFASTNESS/WET CROCK	5					5	3.5 MINIMUM RATING	5651	
	5					5			
	5					5			
COLORFASTNESS/DRY CROCK	5					5	3.5 MINIMUM RATING	5651	
	5					5			
	5					5			
COLORFASTNESS/LIGHT(FADE)	GOOD						GOOD	5660	
COLORFASTNESS/LIGHT(FADE)	GOOD						GOOD	5660	
COLORFASTNESS/LIGHT(FADE)	GOOD						GOOD	5660	
COLORFASTNESS/LIGHT(FADE)	XENON						GOOD	5660	
COLORFASTNESS/LAUNDERING	FAIR						FAIR	5614 2/	
COLORFASTNESS/LAUNDERING	FAIR						FAIR	5614 2/	
COLORFASTNESS/LAUNDERING	FAIR						FAIR	5614 2/	
CURVATURE	.156	.187	.187	.125	.218	.1746	.25" MAXIMUM	4.5.1	
	.218	.0937	.218	.0937	.156	.1559			
	.156	.0937	.125	.125	.0937	.1187			
PH	6.49	6.49				6.49	5.0 TO 8.5	2811	
	6.14	6.14				6.14			
	6.38	6.38				6.38			
NYLON YARN	PASS						PASS OR FAIL	3.3.1	
NYLON YARN	PASS						PASS OR FAIL	3.3.1	
NYLON YARN	PASS						PASS OR FAIL	3.3.1	
NON BLEACHING	NONE						NONE	3.3.1	
NON BLEACHING	NONE						NONE	3.3.1	
NON BLEACHING	NONE						NONE	3.3.1	
NYLON MELTING POINT	484	482				483		1534	
	482	484				483			
	484	482				483			



Bally Ribbon Mills
23 North 7th St. Bally PA 19503
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06/02/16

LAB REPORT

Number: 237437-5117

PAGE: 3

Qualified Lab - List No. 1935

Customer	TULMAR SAFETY SYSTEMS		
Purchase Order No.	30196-00	Shipped Via	FEDX PRIORITY 1
Specifications	MIL-W-4088K TYPE VIIIB CL.1	Memo No.	431476
Contract No.	UV, MOULD, FUNGUS RESISTANT	Shipped Qty	108 YD
	DOM: 04/16 LOT: 9C8905		
BALLY RIBBON MILLS	938102000BKFT	Lot Qty	1247
Pattern No.	9381-2" BLACK FLAME RESIST. TREATED NYL.WEBBING		

-----TESTS----- *-----TEST RESULTS-----* AVERAGE *---REQUIREMENT---* METHOD

I certify that the above tests were performed under my supervision in accordance with the specification test requirements and that the reported test results are true, valid and applicable to the samples tested.

JUN 07 2016



2227-002

3#1

Jerome Richards, Quality Assurance Manager



Bally Ribbon Mills
23 North 7th St. Bally PA 19503
p 610.845.2211 f 610.845.8013

06/16/16

B#2
LAB REPORT

Number: 239131-5629

PAGE: 1

Qualified Lab - List No. 1935

Customer TULMAR SAFETY SYSTEMS
Purchase Order No. 30133-00
Specifications MIL-W-4088K TYPE XVII CLASS 1A
P/N 2262-002
Contract No. UV, MOULD, FUNGUS RESISTANT
DOM: 06/16 LOT: 9C9713
BALLY RIBBON MILLS 402801000RD31350
Pattern No. 4028-1" RED #31350 NYLON WEBBING

Shipped Via FED X ECONOMY

Memo No. 432004

Shipped Qty 110 YD

Lot Qty 193

-----TESTS-----	*-----TEST RESULTS-----*					AVERAGE	*---REQUIREMENT----	METHOD
WIDTH	1.031	1	1.031	1	1	1.0124	1" +/- 1/16"	5020
	1.031	1.031	1.031	1.031	1.031	1.031		
THICKNESS	.056	.056	.056	.056	.056	.056	.045" TO .070"	5030
	.056	.056	.056	.056	.056	.056		
WEIGHT	.942	.942	.942	.943	.943	.9424	1.15 OZ/YD MAXIMUM	5041
	.937	.941	.941	.941	.941	.9402		
FACE AND BACK WARP ENDS	114	114	114	114	114	114	114 ENDS MINIMUM	5050
	114	114	114	114	114	114		
840 DENIER NYLON, 2 PLY, BRT HIGH TENACITY HEAT & LIGHT RESISTANT, NYLON 6.6								
GROUND YARN DENIER	840	840				840	840 DENIER	4021 1/
	840	840				840		
GROUND YARN TWIST/INCH	2.5	2.5				2.5	2 1/2 TPI MINIMUM	4054 2/
	2.5	2.5				2.5		
GROUND YARN PLY	2	2				2	2 PLY	VISUAL
	2	2				2		
PICKS PER INCH	30	30	30	30	30	30	30 PICKS MINIMUM	5050
	30	30	30	30	30	30		
840 DENIER NYLON, 1 PLY, BRT HIGH TENACITY HEAT & LIGHT RESISTANT, NYLON 6.6 CATCHCORD - 70 DENIER BLACK POLYESTER								
FILL YARN DENIER	840	840				840	840 DENIER	4021 1/
	840	840				840		
FILL YARN PLY	1	1				1	1 PLY	VISUAL
	1	1				1		
BREAKING STRENGTH	3556	3544	3553	3558	3571	3556.4	2500 LBS MINIMUM	4108
	3557	3533	3560	3533	3556	3547.8		
WEAVE	PASS						PASS OR FAIL	VISUAL
WEAVE	PASS						PASS OR FAIL	VISUAL
WEAVE	TWO UP, TWO DOWN HERRINGBONE TWILL W/ONE CENTER REVERSAL						PASS OR FAIL	VISUAL
COLORFASTNESS/WET CROCK	5					5	3.5 MINIMUM RATING	5651
	5					5		
COLORFASTNESS/DRY CROCK	4.5					4.5	3.5 MINIMUM RATING	5651
	4.5					4.5		
COLORFASTNESS/LIGHT(FADE) GOOD							GOOD	5660
COLORFASTNESS/LIGHT(FADE) GOOD							GOOD	5660
COLORFASTNESS/LIGHT(FADE) XENON							GOOD	5660

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LAB REPORT

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Bally Ribbon Mills
23 North 7th St. Bally PA 19503
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06/16/16

Number: 239131-5629

Qualified Lab - List No. 1935

Customer TULMAR SAFETY SYSTEMS

Purchase Order No. 30133-00

Shipped Via FED X ECONOMY

Specifications MIL-W-4088K TYPE XVII CLASS 1A
P/N 2262-002

Memo No. 432004

Contract No. UV, MOULD, FUNGUS RESISTANT
DOM: 06/16 LOT: 9C9713

Shipped Qty 110 YD

BALLY RIBBON MILLS 402801000RD31350
Pattern No. 4028-1" RED #31350 NYLON WEBBING

Lot Qty 193

-----T E S T S-----		*-----T E S T R E S U L T S-----*					AVERAGE	*---REQUIREMENT----	METHOD
COLORFASTNESS/LAUNDERING	FAIR							FAIR	5614 2/
COLORFASTNESS/LAUNDERING	FAIR							FAIR	5614 2/
COLORFAST/LIGHT CATCHCORD	GOOD							GOOD	5660
COLORFAST/LIGHT CATCHCORD	GOOD							GOOD	5660
COLORFAST/LIGHT CATCHCORD	XENON							GOOD	5660
COLORFAST/LAUND CATCHCORD	GOOD							FAIR	5614
COLORFAST/LAUND CATCHCORD	GOOD							FAIR	5614
CURVATURE		.062	.062	.062	.125	.125	.0872	.25" MAXIMUM	4.5.1
		.125	.125	.093	.093	.156	.1184		
PH		5.27	5.27				5.27	5.0 TO 8.5	2811
		5.55	5.55				5.55		
NYLON YARN	PASS							PASS OR FAIL	3.3.1
NYLON YARN	PASS							PASS OR FAIL	3.3.1
NON BLEACHING	NONE							NONE	3.4.3 1/
NON BLEACHING	NONE							NONE	3.4.3 1/
NYLON MELTING POINT		482	482				482		1534
		482	482				482		

I certify that the above tests were performed under my supervision in accordance with the specification test requirements and that the reported test results are true, valid and applicable to the samples tested.

JUN 22 2016

Jerome Richards, Quality Assurance Manager

2262-002
B # 2



B#2

CERTIFICATE

Number: 239131-7953

Bally Ribbon Mills
23 North 7th St. Bally PA 19503
p 610.845.2211 f 610.845.8013

06/16/16

Qualified Lab - List No. 1935

Customer	TULMAR SAFETY SYSTEMS	Memo No.	432004
Purchase Order No.	30133-00	Shipment	
Specifications	MIL-W-4088K TYPE XVII CLASS 1A P/N 2262-002	Shipped Via	FED X ECONOMY
Contract No.	LOT #9C9713 DOM:06/16 UV, MOULD, FUNGUS RESISTANT	Quantity	110 YD
BALLY RIBBON MILLS	402801000RD31350	Lot Quantity	193 YDS
Pattern No.	4028-1" RED #31350 NYLON WEBBING		

CERTIFICATE OF CONFORMANCE

I certify that this pattern conforms with the physical, chemical, and visual quality of the Military Specifications listed above.

Jerome Richards

Jerome Richards, Quality Assurance Manager

2262-002
B#2

JUN 22 2016





2262-B

B# 20

CERTIFICATE

Number: 227836-8311

Bally Ribbon Mills
23 North 7th St. Bally PA 19503
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07/01/16

Qualified Lab - List No. 1935

Customer	TULMAR SAFETY SYSTEMS	Memo No.	432493
Purchase Order No.	30299-00	Shipment	
Specifications	MIL-W-4088K CLASS 1 TYPE XVII COLOR CHIP #37030 P/N TSS2262B	Shipped Via	FED X ECONOMY
Contract No.	LOT # 9C5375 DOM:07/15	Quantity	406 YD
BALLY RIBBON MILLS	894101000BK	Lot Quantity	2471 YDS
Pattern No.	8941-1" BLACK NYLON WEBBING		

CERTIFICATE OF CONFORMANCE

I certify that this pattern conforms with the physical, chemical, and visual quality of the Military Specifications listed above.

Jerome Richards, Quality Assurance Manager

TSS 2262-B B/20 (PP)



Bally Ribbon Mills
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07/01/16

LAB REPORT

Number: 227836-6103

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Qualified Lab - List No. 1935

Customer TULMAR SAFETY SYSTEMS
Purchase Order No. 30299-00
Specifications MIL-W-4088K CLASS 1 TYPE XVII
COLOR CHIP #37030 P/N TSS2262B
Contract No. DOM: 07/15 LOT: 9C5375
BALLY RIBBON MILLS 894101000BK
Pattern No. 8941-1" BLACK NYLON WEBBING

Shipped Via FED X ECONOMY

Memo No. 432493

Shipped Qty 406 YD

Lot Qty 2471

-----T E S T S-----	*-----T E S T R E S U L T S-----*						AVERAGE	*---REQUIREMENT---	METHOD
WIDTH	1.031	1.031	1.031	1.031	1.031	1.031	1.031	1" +/- 1/16"	5020
	1.031	1.031	1.031	1.031	1.031	1.031	1.031		
	1.031	1.031	1.031	1.031	1.031	1.031	1.031		
THICKNESS	.056	.059	.059	.059	.057	.058	.058	.045" TO .070"	5030
	.058	.058	.058	.059	.06	.0586	.0586		
	.057	.057	.059	.058	.059	.058	.058		
WEIGHT	.94	.94	.92	.92	.94	.932	.932	1.15 OZ/YD MAXIMUM	5041
	.94	.92	.92	.92	.92	.924	.924		
	.92	.94	.94	.94	.92	.932	.932		
FACE AND BACK WARP ENDS	114	114	114	114	114	114	114	114 ENDS MINIMUM	5050
	114	114	114	114	114	114	114		
	114	114	114	114	114	114	114		
840 DENIER NYLON, 2 PLY, BRT HIGH TENACITY HEAT & LIGHT RESISTANT, NYLON 6.6									
GROUND YARN DENIER	840	840				840	840	840 DENIER	4021 1/
	840	840				840	840		
	840	840				840	840		
GROUND YARN TWIST/INCH	2.5	2.5				2.5	2.5	2 1/2 TPI MINIMUM	4054 2/
	2.5	2.5				2.5	2.5		
	2.5	2.5				2.5	2.5		
GROUND YARN PLY	2	2				2	2	2 PLY	VISUAL
	2	2				2	2		
	2	2				2	2		
PICKS PER INCH	16	16	16	16	16	16	16	15 PICKS MINIMUM	5050
	16	16	16	16	16	16	16		
	16	16	16	16	16	16	16		
840 DENIER NYLON, 2 PLY, BRT HIGH TENACITY HEAT & LIGHT RESISTANT, NYLON 6.6									
FILL YARN DENIER	840	840				840	840	840 DENIER	4021 1/
	840	840				840	840		
	840	840				840	840		
FILL YARN PLY	2	2				2	2	2 PLY	VISUAL
	2	2				2	2		
	2	2				2	2		
BREAKING STRENGTH	3664	3779	3653	3799	3696	3718.2	3718.2	2500 LBS MINIMUM	4108
	3769	3685	3794	3782	3802	3766.4	3766.4		
	3792	3793	3736	3780	3768	3773.8	3773.8		

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TSS 2262-B B/20 PP



Bally Ribbon Mills
23 North 7th St. Bally PA 19503
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07/01/16

LAB REPORT

Number: 227836-6103

PAGE: 2

Qualified Lab - List No. 1935

Customer TULMAR SAFETY SYSTEMS
Purchase Order No. 30299-00
Specifications MIL-W-4088K CLASS 1 TYPE XVII
COLOR CHIP #37030 P/N TSS2262B
Contract No. DOM: 07/15 LOT: 9C5375
BALLY RIBBON MILLS 894101000BK
Pattern No. 8941-1" BLACK NYLON WEBBING

Shipped Via FED X ECONOMY
Memo No. 432493
Shipped Qty 406 YD
Lot Qty 2471

-----T E S T S-----		*-----T E S T R E S U L T S-----*					AVERAGE	*---REQUIREMENT---	METHOD
WEAVE	PASS							PASS OR FAIL	VISUAL
WEAVE	PASS							PASS OR FAIL	VISUAL
WEAVE	PASS							PASS OR FAIL	VISUAL
WEAVE	TWO UP, TWO DOWN HERRINGBONE TWILL W/ONE CENTER REVERSAL							PASS OR FAIL	VISUAL
COLORFASTNESS/WET CROCK	4						4	3.5 MINIMUM RATING	5651
	4						4		
	4						4		
COLORFASTNESS/DRY CROCK	3.5						3.5	3.5 MINIMUM RATING	5651
	3.5						3.5		
	3.5						3.5		
COLORFASTNESS/LIGHT(FADE)	GOOD							GOOD	5660
COLORFASTNESS/LIGHT(FADE)	GOOD							GOOD	5660
COLORFASTNESS/LIGHT(FADE)	GOOD							GOOD	5660
COLORFASTNESS/LAUNDERING	FAIR							FAIR	5614 2/
COLORFASTNESS/LAUNDERING	FAIR							FAIR	5614 2/
COLORFASTNESS/LAUNDERING	FAIR							FAIR	5614 2/
CURVATURE	.062	.062	.062	.031	.125	.0684	.25" MAXIMUM	4.5.1	
	.062	.062	.125	.125	.031	.081			
	.093	.125	.062	.062	.093	.087			
PH	7.27	7.27				7.27	5.0 TO 8.5	2811	
	8.31	8.31				8.31			
	7.46	7.46				7.46			
NYLON YARN	PASS							PASS OR FAIL	3.3.1
NYLON YARN	PASS							PASS OR FAIL	3.3.1
NYLON YARN	PASS							PASS OR FAIL	3.3.1
NON BLEACHING	NONE							NONE	3.3.1
NON BLEACHING	NONE							NONE	3.3.1
NON BLEACHING	NONE							NONE	3.3.1
NYLON MELTING POINT	490	490				490		1534	
	490	490				490			
	490	490				490			

I certify that the above tests were performed under my supervision in accordance with the specification test requirements and that the reported test results are true, valid and applicable to the samples tested.


Jerome Richards, Quality Assurance Manager

TSS 2262-13

B/20





cansew inc.

formerly / anciennement
Canadian Sewing Supply Ltd. / Ltée – established / établie 1924

Manufacturers of sewing threads. / Wholesalers of elastics, Velcro, tapes, trimmings.
Fabricants de fils à coudre. / Grossistes d'élastiques, Velcro, galons, garnitures.

10 May 2010

Tulmar Safety Systems
1123 Cameron Street
Hawksbury, Ontario
K6A 2B8

Att. Sandra Nadeau

CERTIFICATE OF COMPLIANCE

This is to certify that the item mentioned below, shipped to Tulmar Safety Systems by CANSEW INC. on 10 May 2010, has been produced in accordance with the conditions set forth in Purchase Order no. 17817-00 of the same day:

-Bonded Nylon CB138 tex 135 – 10.40 lb, colour black, lot # 188476

The product meets the requirements of specification V-T-295, Type 2, Class A, Size FF.

Yours truly,

Hershie Schachter
CANSEW INC.

MONTREAL - Head Office/Siège social
111 Chabanel W / O H2N 1C9
Administration (514) 382-2807
Commandes/Orders (514) 382-2801
1-800-361-7722
FAX: (514) 385-5530

TORONTO
28 Apex Rd. M6A 2V2
(416) 782-1122
1-800-387-8584
FAX: (416) 782-8358

WINNIPEG
1674 Church Ave R2X 2W9
(204) 942-4264
1-800-665-0701
FAX: (204) 947-9280

CALGARY
3932 - 29th St. N.E. T1Y 6B6
(403) 291-4494
1-800-667-4197
FAX: (403) 291-5139

VANCOUVER
1615 Venables St. V5L 2H1
(604) 682-4341
1-800-580-0737
FAX: (604) 682-4196

info@cansew.ca

www.cansew.ca

TS 2547/05